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ANNALS

OF

THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE.

VOL. XV. — PART II.

CATALOGUE OF 8627 STARS

BETWEEN 49°50′ AND 55°10′ OF NORTH DECLINATION IN 1855.0

FOR THE EPOCH 1875.0

OBSERVED WITH THE MERIDIAN CIRCLE DURING THE YEARS 1870 TO 1884, AND PREPARED FOR PUBLICATION UNDER THE DIRECTION OF

JOSEPH WINLOCK AND EDWARD C. PICKERING,

SUCCESSIVE DIRECTORS OF THE OBSERVATORY

BY

WILLIAM A. ROGERS,

FORMERLY ASSISTANT PROFESSOR OF ASTRONOMY IN THE OBSERVATORY AND NOW PROFESSOR OF PHYSICS AND ASTRONOMY IN COLBY UNIVERSITY.

PRINTED FROM THE STURGIS FUND.

KARLSRUHE:
G. BRAUN'S HOFBUCHDRUCKEREI.
1892.

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PREFACE TO PART II.

The present publication contains the results of observations undertaken under the direction of the late Professor Winlock as part of the general system of zone observations instituted by the Astronomische Gesellschaft, as is more particularly explained in the preface to Part I. of this volume. The constants employed in the reduction of the observations from which this catalogue has been constructed will be found in Volume XVI. of these Annals.

All the observations were made by Professor William A. Rogers, with the exception of some zones observed early in the series by Mr. Augustus McConnel. The circle was read at different times by Professor Rogers and by Messrs. A. McConnel, J. F. McCormack, and D. B. Pratt. The reductions have been throughout in charge of Professor Rogers. Among those who assisted him in the work, special mention should be made of Miss R. G. Saunders and Miss Anna Winlock, who rendered important aid in the computations during their entire progress.

The present publication is made in cooperation with the Astronomische Gesellschaft, and will appear simultaneously as a publication of that Society and as a part of the Annals of this Observatory.

EDWARD C. PICKERING,
Director of the Observatory of Harvard College.

CAMBRIDGE, U. S., *September 21, 1891.*

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INTRODUCTION.

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DESCRIPTION OF THE MERIDIAN CIRCLE AND OF THE METHODS OF OBSERVATION AND REDUCTION.

Since the description of the instrument with which the zone observations were made, and of the methods of reduction employed, are given in detail in Volumes X and XVI of the Annals of the Observatory of Harvard College, it will be sufficient to indicate here, the pages in these volumes upon which will be found the principal parts connected with the present work.

Volume X.

Page IX. Description of the Meridian Circle.
XIII. Description of the transit reticule.
XV. Description of the Standard Clock, Frodsham N° 1327.
XVI. Description of Chronograph, Barometer, Thermometer and Level.
XVI. Method of reduction in Right Ascension.
XXIII. Method of reduction in Declination.
XXX. Precession formulae employed.

Volume XVI.

Page VII. Reduction of the observations in right ascension by which the systematic deviations from the system of the Gesellschaft are included in the constant n.
XX. Reduction of $\Delta T + m$ derived from stars at different declinations to a normal system at the mean declination of the zone from $+50^\circ$ to $+55^\circ$.
XXIII. Description of the transit reticule used subsequent to the year 1883.
XXIV. Reduction of the observations in declination.
XXVI. Tabular values of the inclination of the declination wire to the horizontal line of the reticule.
XXVII. Adopted values of the constant of runs.
XXVIII. Investigation of the flexure constant, and the determination of the horizontal flexure.
LXII. Variability of the flexure.
LXVII. Reduction of the flexure derived from stars at different declinations, to a normal system at the mean declination of the zone from $+50^\circ$ to $+55^\circ$. The values of the flexure thus derived, contain:
a) the flexure of the Circle,
b) the systematic errors of the Circle,
c) any systematic errors which may be involved in the Fundamental Catalogue,
d) all errors which are a function of the zenith distance, such as personal habit of the observer, refraction &c.
LXIX. Reduction of the mean of two microscopes to the mean of four microscopes.
LXXI. Provisional corrections to the places of Publication XIV.
LXXV. Progressive changes in the value of the collimation.
LXXXI. Tabular values of the instrumental constants employed in the reduction of the zone observations, including the particular values of $\Delta T + m$ and of the equator point correction adopted as distinguished from the general values of those functions derived from all the fundamental stars observed.
CXII. Tabular values of the collimation for the years 1883—1884.
CXIV. Tabular values of the flexure adopted in the reduction of the zone observations.
CXXI. Readings of the barometer and of the external and the attached thermometers, for the years 1870—1886.

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It will be observed that the programme of the Gesellschaft, in regard to the selection of the fundamental stars preceding and following the observations of zone stars, has not been strictly followed. The decision of Professor Winlock, under whose direction the plan for the zone observations was formulated: that the Meridian Circle should be employed to a certain extent in the observations of fundamental stars with respect to the needs of the United States Coast Survey, of which he was at that time the Consulting Astronomer, made this departure necessary. On account of the efforts which have been made to secure a close adherence to the system of the Gesellschaft in the reduction of the observations, the writer has the hope that this deviation from the recommendation of the Zone Commission will not prove harmful.

In addition to the description of the methods of observation given in Volumes X and XVI no farther description appears to be necessary beyond a statement of the order of procedure for each zone observed. A working list of such zone stars as could be observed in a single evening was first selected, and copied into the record books which contain the circle readings and all the original data of observation except the chronograph readings. In order to facilitate the setting of the instrument at the required declination, an arc of 6 degrees was graduated to 5′ on the marble pier near the base. With a pointer attached to the axis of the telescope it was found easy to make the setting within 2′ or 3′, with great expedition.

The recorder first called out the declination of the star to be observed. The observer then set the telescope, and having found the star, a more exact setting was made so that it would cross the inclined declination thread at an assumed constant distance from the first vertical thread of the reticule. The observer now called out "Ready", and gave the estimate of magnitude; the recorder then read the two microscopes and entered the readings in the record book, together with the magnitude. Meanwhile, the observer made the chronographic register for the transits over the vertical threads. During this time the reader recorded any explanatory statements necessary. The break of the chronograph key was usually made longer for transits over the inclined wire, in order to facilitate the identification on the chronograph sheets. Occasionally, it was found either convenient or necessary to delay the observation for declination till after the transit over the vertical threads. In this case, the recorder made the note "Declination follows".

In many instances two stars were observed from a single setting of the instrument. In this case, if the following star made the transit over the inclined wire in advance of the other, the recorder made the record "$2^{nd}\,\delta$ pr.". This habit of double, and occasionally of triple observations is not to be commended. Aside from the difficulty of identification in reading the chronograph sheets, the recorder in the hurry of double readings of the microscopes often failed to make the necessary explanatory notes, and the observer sometimes became confused in attempting too rapid work. Notwithstanding the care which has been taken in the reduction of the observations, to make the identification of the stars observed in this way as correct as possible, it will doubtless be found that in some instances an uncertainty remains.

The selected list of stars was re-observed on the first clear evening following. The chronograph sheets for both dates were then read off and from a comparison of the observed coordinates, approximately reduced, it was decided whether the stars observed should be checked off from the list, or should be entered for re-observation. In general, any star concerning which any doubt whatever appeared, was given the benefit of the doubt by retention on the working list.

The programme given above, relates to the observations in which the observer and the recorder were different persons. During the years 1883 and 1884 the financial needs of the Observatory would not permit the employment of a recorder. During these years, the revision of the zones was made by the writer without assistance. These observations prove to be distinctly inferior to those made in previous years, as will appear from an examination of the probable errors of a single observation, subsequently given. The observer was compelled to enter an observing pit two feet in depth, set the telescope, and after making the observation return to the circles. The distance travelled by the observer during each observation was about 25 feet. Moreover, the multiplication of duties within the limited time at disposal between the first appearance of the star in the field and the transit over the inclined thread, prevented the adjustment of the illumination which was often necessary. It is not surprising, therefore, that the final revision of the zones and the examination of isolated cases made by the writer during the years 1883 and 1884 is not as satisfactory as might be desired.

NUMBER OF OBSERVATIONS.

A single count gave for the total number of observations of zone stars, 26648. Of this number:

8202, refer to stars observed twice.
4824, refer to stars observed three times.
5960, refer to stars observed four times.
7662, refer to stars observed more than four times.

The following distribution by magnitudes was found:

Limiting magnitudes:	9.5··9.3	9.3··9.0	9.0··8.5	8.5··8.0	8.0··7.5	7.5··7.0	7.0··6.5	6.5··6.0
Number of observations:	2482	6438	9281	4320	1882	1153	557	535

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In this count the stars having the magnitudes 9.3, 9.0, 8.5, 8.0, 7.5, 7.0, and 6.5, were equally divided between the two groups which these magnitudes respectively limit.

Nearly all of the stars marked B in the Durchmusterung were seen, but without the aid of an assistant it was found impossible to make the adjustment of the illumination closely enough to observe the faint stars.

No observations of the following stars were obtained, although search was made for them on several occasions.*

BD stars marked B		BD stars marked A	Other stars BD
53° 345 8m.1	50°1564 9m.5	52° 546 9m.2	50° 155 8m.9
51 818 9.5	51 1770 9.2	52 569 9.1	50 557 9.0
50 1027 9.4	50 1813 9.5	51 993 8.6	55 1651 Neb.
49 1303 9.5	54 1831 9.5	51 1109 8.8	
54 943 9.5	50 1967 9.4	54 1513 9.2	
53 958 9.2	50 2359 9.3	54 1551 9.1	
55 1017 9.2	50 3576 9.2	53 1662 8.7	
51 1060 9.5	49 4216 9.4	53 2934 9.3	
54 1237 9.1			

NOTES UPON THE OBSERVED POSITIONS.

In those cases in which uncertainty exists in the catalogue positions which has not been removed by re-observation or by comparison with other authorities, notes indicating the doubt are appended in the list found at the end of the Catalogue. A very large number of cases are omitted, in which there is an apparent disagreement with other authorities, but in which the uncertainty does not appear to relate to the positions in this catalogue. It will be observed that the doubt principally relates to the minute of declination.

The circle-reader and recorder, employed during the greater portion of the work, did his part of the observation with methodical precision, but at one time he did not exercise sufficient care in reading the minute of declination when the micrometer reading was near an even minute. The uncertainty in this respect was removed in most cases by a subsequent observation, but a few cases of doubt remain, and others will doubtless be found in future revisions.

It will be understood that when there is a disagreement with some other authority, it does not necessarily follow that the error is in the position of the present catalogue, although this will doubtless be found to be true in some cases. Whenever the expression "The minute of δ may be —" occurs, it is to be understood that one or more of the observations give the minute indicated, but that the balance of evidence is in favor of the minute of declination given in the Catalogue.

Another source of doubt in respect to the declinations, relates to uncertainty in the chronograph records. By making the break for the observation in declination longer than the others there was usually no trouble in identification, but accidental breaks were often made which introduced some confusion. Moreover the rule in regard to long breaks was occasionally not followed, so that there was sometimes doubt in regard to the time of transit over the declination thread. Upon the whole, however, it is believed that this method of observation in declination has fewer disadvantages than the ordinary method, while in point of precision it compares favorably with it.

There is some evidence that this method can be more satisfactorily employed for bright than for faint stars. Unfortunately, no provision was made in the zone observations for an exact determination of that part of the probable error in declination which depends only on the time of transit over the inclined threads, and especially for an estimate of the effect of magnitude upon this quantity. For bright stars however, two series of observations are available for obtaining the required data. Volume XVI of the Annals of the Observatory contains on pages 331 . . . 337 the separate values of the declination for the mean of four microscopes, from observations of α Ursae minoris, δ Ursae minoris, λ Ursae minoris and 51 H. Cephei, for those cases in which repeated observations of these stars in declination were made at a given culmination. In this series of observations it was not found expedient to arrange the transits in declination symmetri-

* From an examination of the originals of the Bonner Durchmusterung and of Argelander's zones and meridian observations, made at the request of the editor by Dr. Deichmüller, there appears to be no doubt that all of these stars exist in the positions assigned to them in BD, with the exception of 50°557, whose supposed existence seems to be due only to some error of observation, of 51°1109, whose R.A. as given in BD ought to be increased by 1m, and of 51°1060, whose Decl. for 51°51′21″.2 should be 51°52′21″.2 in BB. VI and is to be corrected accordingly in BD.

The BD-RA. of 51°1110 requires the same correction of +1m as 1109, and is 5h36m30s.3 as given in BB. VI. This star too, therefore, has not been found at Cambridge.

Some of the overlooked stars have been observed by Dr. Deichmüller with the Bonn meridian circle and should be inserted as follows:

Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	No. obs.	B. D.
8.4	1h29m41s.41	+3s.7608	+0s.0602	+53°28′26″.7	+18″.538	−0″.217	1892.0	2	53° 345
8.8	5 37 56.93	+4.7185	+0.0098	51 2 55.9	+ 1.927	−0.686	1892.0	2	51 1109
8.6	5 38 5.20	+4.7394	+0.0099	51 24 1.8	+ 1.915	−0.689	1892.0	2	51 1110

The nebula, 55°1651, is M. 101 (h 1744), a large faint object, which cannot be seen in the illuminated field of a transit circle.

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cally on each side of the central vertical thread. On this account the degree of precision of which this method of observing the declination is capable is not indicated with great exactness.

An unpublished series of fundamental observations made during the years 1879 ... 1881 should give a definite indication of the degree of precision inherent in this method, since the observations were made with great deliberation. In this series also, great care was taken to secure the transit of the star over the declination threads at two fixed points nearly equi-distant from the middle thread of the reticule. The recorder read the four microscopes as soon as the instrument was set for the first transit over the inclined threads. For the second setting, four readings of each of the four microscopes were taken, two by the circle-reader (M) and two by the observer (R).

Two methods are available in the discussion of that part of the probable error in declination which depends only on the time of transit over the inclined thread.

First. We may find the declination-equivalent of the probable error of a single determination of the value of the inclination i, of the inclined threads to the horizon.

For this purpose we have the following data:

	Probable error of a single determination of i	Probable error of the mean value of i
for 1876	164″	25″
1877	171	26
1879	108	15

For the declination-equivalent we have:

	for single reading of i	for mean value of i
for 1876	P.E. = 0.″362	0.″056
1877	= 0.377	0.059
1879	= 0.242	0.031

Second. Let ε_1 = the probable error of a single observation in declination from the readings of four microscopes and for one transit over the inclined threads
ε_2 = the probable error of the reading of four microscopes
ε_3 = the declination-equivalent of the probable error of the adopted value of i
χ = that part of ε_1 which depends only on the time of a single transit over the inclined threads.

Then: $$\chi = \sqrt{\varepsilon_1^2 - \varepsilon_2^2 - \varepsilon_3^2}$$

For the values of ε_1 we have:

	No. obs.	1876-7	1879
α Ursae minoris	371	ε_1 = 0.″384	ε_1 = 0.″233
δ Ursae minoris	238	= 0.326	
λ Ursae minoris	353	= 0.454	
51 H. Cephei	219	= 0.348	
		Mean = 0.″378	

For 1876-7, the value of ε_2 was found to be 0.″140. For 1879, the value of ε_2 derived from the four sets of readings of the microscopes was 0.″101. The value from two readings was found to be 0.″077 for R. and 0.″099 for M.

Hence for 1876-7 $\quad \chi = \sqrt{0.''378^2 - 0.''140^2 - 0.''057^2} = 0.''347$

for 1879 $\quad \chi = \sqrt{0.''233^2 - 0.''101^2 - 0.''031^2} = 0.''209$

Adopting the mean of the two determinations, we have:

for 1876-7 $\quad \chi = 0.''36$

for 1879 $\quad \chi = 0.''22.$

PROBABLE ERRORS OF THE CATALOGUE POSITIONS.

Two methods have been followed in the determination of the probable error of a single observation.

First Method.

The residuals from the mean of the observed coordinates were first arranged in separate groups as follows:

Group I contains the residuals for all stars observed twice.
Group II contains the residuals for all stars observed three times.
Group III contains the residuals for all stars observed four times.
Group IV contains the residuals for all stars observed more than four times.

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These groups contain all the observations of the zone stars which enter into the present Catalogue, except a few hundred which are entered upon extra sheets, and which could not be conveniently included. Practically, the present discussion involves all of the individual observations upon which the present Catalogue rests; that is it includes all the cases of discordant observation, except those indicated in the footnotes at the bottom of each page.

When the residuals are arranged in the manner described, Peters' formula for the determination of the probable error of a single observation is more convenient in application than the formula ordinarily employed; it is therefore employed in the computations which follow.

Let

n' = the number of residuals in each group
n'' = the number of groups
$n = n'n''$ = the number of residuals in n'' groups
v_1, v_2, &c. = the residuals from the mean of each group
$\frac{\Sigma[v]}{n'n''} = \frac{\Sigma[v]}{n}$ = the average value of n residuals.

The average probable error derived from each group, will then be expressed by the formula:

$$\text{P.E.} = 0.8453 \frac{\Sigma[v]}{n''\sqrt{n'(n'-1)}} \tag{1}$$

For $n' = 2$	P.E. $= 0.598 \frac{\Sigma[v_2]}{n''} = 1.196 \frac{\Sigma[v]}{n'n''}$		For $n' = 7$	P.E. $= 0.130 \frac{\Sigma[v_7]}{n''} = 0.913 \frac{\Sigma[v]}{n'n''}$	
$n' = 3$	$= 0.345 \frac{\Sigma[v_3]}{n''} = 1.035 \frac{\Sigma[v]}{n'n''}$		$n' = 8$	$= 0.113 \frac{\Sigma[v_8]}{n''} = 0.903 \frac{\Sigma[v]}{n'n''}$	
$n' = 4$	$= 0.244 \frac{\Sigma[v_4]}{n''} = 0.976 \frac{\Sigma[v]}{n'n''}$		$n' = 9$	$= 0.100 \frac{\Sigma[v_9]}{n''} = 0.896 \frac{\Sigma[v]}{n'n''}$	
$n' = 5$	$= 0.189 \frac{\Sigma[v_5]}{n''} = 0.945 \frac{\Sigma[v]}{n'n''}$		$n' = 10$	$= 0.089 \frac{\Sigma[v_{10}]}{n''} = 0.891 \frac{\Sigma[v]}{n'n''}$	
$n' = 6$	$= 0.154 \frac{\Sigma[v_6]}{n''} = 0.926 \frac{\Sigma[v]}{n'n''}$				

The computation may be conveniently made by means of the formula:

$$\text{P.E.} = 0.8453 \sqrt{\frac{\Sigma[v]}{n(n-n'')}} \tag{2}$$

in which $\Sigma[v]$ represents the sum of the entire number of residuals in a given series without regard to their division into groups. When $n'n''$ is substituted for n, this formula becomes identical with (1).

If it is desired to make use of the formula in which the second power of the residuals is involved, it cannot be assumed that the average probable error will be found by taking the arithmetical mean of the values of the probable error derived from the individual groups. In this case we must take the square root of the mean of the squares of the separate values. This operation is indicated by the equation:

$$\text{P.E.} = 0.6745 \sqrt{\frac{\Sigma[vv]}{n-n''}} \tag{3}$$

When $n'n''$ is substituted for n, this formula becomes:

$$\text{P.E.} = 0.6745 \sqrt{\frac{\Sigma[vv]}{n''(n'-1)}} \tag{4}$$

The application of this formula will be much simplified by introducing the numerical values of n'. Making this substitution and noting that $n'' = \frac{n}{n'}$, we have:

$$\begin{aligned} \text{for } n' = 2 \quad & \text{P.E.} = 0.954 \sqrt{\frac{\Sigma[vv]}{n}} \\ n' = 3 \quad & = 0.826 \sqrt{\frac{\Sigma[vv]}{n}} \\ n' = 4 \quad & = 0.779 \sqrt{\frac{\Sigma[vv]}{n}} \end{aligned} \tag{5}$$

It will be found that formulae (1) and (3) give identical results for the same series of observations only when the number of residuals is very great. In this series of observations the following relations appear to be substantially true, when all the observations of a given series are taken into account.

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1. When the ratio of the average deviation of the separate values of the probable errors which compose a group to the mean value for that group is less than the mean value of the ratios for the entire number of groups, formula (1) will give a less value than formula (3). When any ratio is greater than the mean value of all the ratios, formula (3) will for the most part give a larger value than formula (1).

In this series of observations, formulae (1) and (3) give substantially identical results. This would not be true if there were many cases in which the individual values of the probable error for any group exceeded twice the average probable error for the entire number of groups.

2. If the probable error is computed from those residuals only which exceed 0ˢ.085, the results obtained from formula (3) will be less than those computed by formula (1). The greatest deviation will occur for the case in which $n' = 2$, in which the difference may amount to one half of the probable error for the entire series. This difference decreases as n' increases and practically disappears when $n' = 10$. This difference also increases with an increase in the magnitude of the residuals from which the probable error is computed and with the consequent diminution of the number of groups.

3. The agreement of the results obtained from formulae (1) and (3) will afford a useful indication of the general character of the observations and may be made of special service as a measure of the freedom of the observations from residuals having abnormally large values.

Table I is given as an illustration of the statements made above.

This Table contains the results of the computation of the probable error in Right Ascension derived from all the observations of stars between 8ᵐ.5 and 9ᵐ.0 and included between the limits 0^h and 6^h. Under division A are given the values of the probable error computed by formulae (1) and (3) and the difference (3) − (1). Under division B the first part contains all those cases in which the value of the probable error for any group is less than 0ˢ.085 and the second part contains all those in which the values exceed 0ˢ.085. In division C the corresponding limit is 0ˢ.100. The number of groups upon which the given probable error depends is given for each case.

The average deviations of the separate values of the probable error which compose a group from the mean value, together with the ratio defined above, are given in the subsidiary table which follows table I.

It should be noted that the smaller values of P.E. for $n' = 2$ are probably due to the fact that all the observations of this class fell within the limits of the maximum deviation prescribed.

Table I.

Limits in α	Division A				Division B							Division C								
	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)
For n′ = 2																				
$0^h\ 0^m$.. $0^h 30^m$	42	0ˢ.048	0ˢ.049	+0ˢ.001	31	0ˢ.031	0ˢ.033	+0ˢ.002	6	0ˢ.121	0ˢ.099	−0ˢ.022	39	0ˢ.039	0ˢ.042	+0ˢ.003	3	0ˢ.136	0ˢ.108	−0ˢ.028
0 30 .. 1 0	50	0.053	0.052	−0.001	43	0.042	0.039	−0.003	7	0.129	0.103	−0.026	47	0.047	0.045	−0.002	3	0.152	0.121	−0.031
1 0 .. 1 30	44	0.050	0.051	+0.001	40	0.042	0.045	+0.003	4	0.114	0.091	−0.023	41	0.042	0.043	+0.001	3	0.140	0.112	−0.028
1 30 .. 2 0	44	0.050	0.048	−0.002	39	0.042	0.039	−0.003	5	0.113	0.090	−0.023	44	—	—	—	0	—	—	—
2 0 .. 2 30	46	0.050	0.052	+0.002	37	0.034	0.032	−0.002	9	0.122	0.097	−0.025	44	0.046	0.046	0.000	2	0.156	0.124	−0.032
2 30 .. 3 0	28	0.053	0.052	−0.001	26	0.044	0.042	−0.002	2	0.156	0.125	−0.031	26	0.044	0.042	−0.002	2	0.156	0.125	−0.031
3 0 .. 3 30	21	0.059	0.054	−0.005	24	0.052	0.046	−0.006	2	0.144	0.115	−0.029	24	0.051	0.046	−0.005	2	0.144	0.115	−0.029
3 30 .. 4 0	25	0.057	0.056	−0.001	21	0.045	0.040	−0.005	4	0.130	0.104	−0.026	24	0.053	0.050	−0.003	1	0.168	0.134	−0.034
4 0 .. 4 30	25	0.053	0.051	−0.002	21	0.042	0.040	−0.002	4	0.110	0.088	−0.022	25	—	—	—	0	—	—	—
4 30 .. 5 0	27	0.049	0.051	+0.002	24	0.038	0.039	+0.001	3	0.132	0.106	−0.026	25	0.042	0.042	0 000	2	0.144	0.115	−0.029
5 0 .. 5 30	15	0.048	0.049	+0.001	14	0.040	0.039	−0.001	1	0.168	0.134	−0.034	14	0.040	0.039	−0.001	1	0.168	0.134	−0.034
5 30 .. 6 0	27	0.049	0.047	−0.002	24	0.039	0.036	−0.003	3	0.124	0.099	−0.025	26	0.046	0.042	−0.004	1	0.144	0.114	−0.030
Means		0ˢ.052	0ˢ.051	−0ˢ.001				−0ˢ.002				−0ˢ.026				−0ˢ.001				−0ˢ.031
For n′ = 3																				
$0^h\ 0^m$.. $0^h 30^m$	15	0ˢ.064	0ˢ.063	−0ˢ.001	12	0ˢ.052	0ˢ.050	−0ˢ.002	3	0ˢ.115	0ˢ.098	−0ˢ.017	15	0ˢ.055	0ˢ.054	−0ˢ.001	2	0ˢ.122	0ˢ.102	−0ˢ.020
0 30 .. 1 0	3	0.053	0.054	+0.001	3	—	—	—	0	—	—	—	3	—	—	—	0	—	—	—
1 0 .. 1 30	16	0.066	0.066	0.000	13	0.054	0.052	−0.002	3	0.123	0.106	−0.017	15	0.062	0.060	−0.002	1	0.144	0.122	−0.022
1 30 .. 2 0	22	0.087	0.106	+0.019	15	0.046	0.046	0.000	7	0.176	0.175	−0.001	17	0.052	0.039	−0.013	5	0.204	0.204	0.000
2 0 .. 2 30	17	0.068	0.069	+0.001	13	0.054	0.051	−0.003	4	0.114	0.109	−0.005	14	0.057	0.053	−0.004	3	0.112	0.117	+0.005
2 30 .. 3 0	15	0.064	0.063	−0.001	11	0.051	0.048	−0.003	4	0.101	0.093	−0.008	14	0.061	0.060	−0.001	1	0.114	0.100	−0.014
3 0 .. 3 30	8	0.058	0.061	+0.003	8	—	—	—	0	—	—	—	8	—	—	—	0	—	—	—
3 30 .. 4 0	12	0.083	0.091	−0.008	11	0.062	0.056	−0.006	1	0.300	0.255	−0.045	11	0.062	0.056	−0.006	1	0.300	0.255	−0.045
4 0 .. 4 30	11	0.067	0.063	−0.004	9	0.056	0.053	−0.003	2	0.114	0.096	−0.018	10	0.062	0.058	−0.004	1	0.121	0.101	−0.020
4 30 .. 5 0	6	0.047	0.049	+0.002	6	—	—	—	2	—	—	—	6	—	—	—	1	—	—	—
5 0 .. 5 30	14	0.064	0.062	−0.002	12	0.054	0.052	−0.002	2	0.116	0.105	−0.011	12	0.005	0.052	−0.003	2	0.116	0.104	−0.012
5 30 .. 6 0	13	0.070	0.076	+0.006	12	0.046	0.045	−0.001	1	0.153	0.135	−0.018	10	0.046	0.045	−0.001	3	0.153	0.135	−0.018
Means		0ˢ.066	0ˢ.069	+0ˢ.003				−0ˢ.002				−0ˢ.016				−0ˢ.004				−0ˢ.017

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Limits in α	Division A				Division B				Division C											
	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)	No. groups	(1)	(3)	(3)−(1)				
For $n' = 4$																				
$0^h\ 0^m$.. $0^h 30^m$	14	0.057	0.060	+0.003	13	0.048	0.048	0.000	1	0.174	0.144	−0.030	13	0.048	0.048	0.000	1	0.174	0.144	−0.030
0 30 .. 1 0	16	0.081	0.083	+0.002	12	0.066	0.067	+0.001	4	0.129	0.119	−0.010	11	0.058	0.060	+0.002	5	0.134	0.119	−0.015
1 0 .. 1 30	10	0.056	0.062	+0.006	7	0.035	0.035	0.000	3	0.106	0.099	−0.007	9	0.048	0.052	+0.004	1	0.135	0.117	−0.018
1 30 .. 2 0	16	0.063	0.064	+0.001	13	0.052	0.050	−0.002	3	0.111	0.104	−0.007	14	0.055	0.054	−0.001	2	0.122	0.109	−0.013
2 0 .. 2 30	11	0.076	0.075	−0.001	8	0.065	0.064	−0.001	3	0.105	0.100	−0.005	10	0.071	0.070	−0.001	1	0.127	0.117	−0.010
2 30 .. 3 0	7	0.064	0.066	+0.002	5	0.057	0.055	−0.002	2	0.084	0.087	+0.003	7	—	—	—	0	—	—	—
3 0 .. 3 30	14	0.057	0.058	+0.001	12	0.057	0.051	−0.002	2	0.092	0.087	−0.005	14	—	—	—	0	—	—	—
3 30 .. 4 0	3	0.074	0.078	+0.004	2	0.047	0.043	−0.004	1	0.129	0.120	−0.009	2	0.047	0.043	−0.004	1	0.129	0.120	−0.009
4 0 .. 4 30	9	0.082	0.083	+0.001	7	0.063	0.059	−0.004	2	0.152	0.137	−0.015	7	0.063	0.059	−0.004	2	0.152	0.137	−0.015
4 30 .. 5 0	10	0.063	0.069	+0.006	8	0.047	0.049	+0.002	2	0.135	0.120	−0.015	8	0.047	0.049	+0.002	2	0.135	0.120	−0.015
5 0 .. 5 30	8	0.035	0.034	−0.001	8	—	—	—	0	—	—	—	8	—	—	—	0	—	—	—
5 30 .. 6 0	17	0.064	0.064	0.000	14	0.054	0.050	−0.004	3	0.115	0.107	−0.008	15	0.058	0.054	−0.001	2	0.118	0.114	−0.004
Means		0.064	0.066	+0.002				−0.001				−0.010				0.000				−0.014
For $n' > 4$																				
$0^h\ 0^m$.. $0^h 30^m$	6	0.079	0.080	+0.001	4	0.057	0.063	+0.006	2	0.115	0.105	−0.010	4	0.057	0.064	+0.007	2	0.115	0.105	−0.010
0 30 .. 1 0	10	0.064	0.062	−0.002	8	0.058	0.054	−0.004	2	0.102	0.084	−0.018	10	—	—	—	0	—	—	—
1 0 .. 1 30	10	0.070	0.068	−0.002	8	0.063	0.058	−0.005	2	0.112	0.100	−0.012	9	0.066	0.063	−0.003	1	0.124	0.105	−0.019
1 30 .. 2 0	15	0.067	0.071	+0.004	10	0.049	0.048	−0.001	5	0.105	0.103	−0.002	12	0.054	0.056	+0.002	3	0.117	0.112	−0.005
2 0 .. 2 30	6	0.079	0.079	0.000	4	0.062	0.060	−0.002	2	0.115	0.108	−0.007	4	0.063	0.060	−0.003	2	0.115	0.108	−0.007
2 30 .. 3 0	8	0.076	0.072	−0.004	8	—	—	—	0	—	—	—	8	—	—	—	0	—	—	—
3 0 .. 3 30	8	0.068	0.063	−0.005	7	0.059	0.058	−0.001	1	0.101	0.089	−0.012	8	—	—	—	0	—	—	—
3 30 .. 4 0	11	0.068	0.068	0.000	8	0.058	0.054	−0.004	3	0.101	0.096	−0.005	10	0.066	0.063	−0.003	1	0.099	0.105	+0.006
4 0 .. 4 30	6	0.091	0.104	+0.013	5	0.072	0.065	−0.007	1	0.217	0.225	+0.008	5	0.072	0.065	−0.007	1	0.217	0.225	+0.008
4 30 .. 5 0	21	0.065	0.069	+0.004	19	0.061	0.062	+0.001	2	0.106	0.112	+0.006	20	0.063	0.064	+0.001	1	0.121	0.133	+0.012
5 0 .. 5 30	11	0.058	0.064	+0.006	10	0.054	0.054	0.000	1	0.141	0.129	−0.012	10	0.054	0.054	0.000	1	0.141	0.129	−0.012
5 30 .. 6 0	8	0.056	0.056	0.000	7	0.050	0.048	−0.002	1	0.105	0.094	−0.011	8	—	—	—	0	—	—	—
Means		0.070	0.071	+0.001				−0.002				−0.007				−0.001				−0.003

	For $n' = 2$		For $n' = 3$		For $n' = 4$		For $n' > 4$	
	Average deviation	Ratios	Average deviation	Ratios	Average deviation	Ratios	Average deviation	Ratios
$0^h\ 0^m$.. $0^h 30^m$	0.030	0.60	0.027	0.43	0.019	0.32	0.024	0.30
0 30 .. 1 0	0.030	0.57	0.023	0.42	0.031	0.38	0.014	0.23
1 0 .. 1 30	0.029	0.57	0.027	0.42	0.031	0.50	0.020	0.30
1 30 .. 2 0	0.022	0.46	0.063	0.60	0.024	0.39	0.016	0.23
2 0 .. 2 30	0.031	0.60	0.025	0.36	0.022	0.29	0.022	0.28
2 30 .. 3 0	0.025	0.48	0.023	0.37	0.014	0.21	0.010	0.14
3 0 .. 3 30	0.023	0.43	0.017	0.42	0.016	0.28	0.022	0.35
3 30 .. 4 0	0.029	0.52	0.036	0.50	0.038	0.49	0.019	0.28
4 0 .. 4 30	0.026	0.51	0.019	0.30	0.035	0.42	0.052	0.50
4 30 .. 5 0	0.031	0.61	0.023	0.50	0.033	0.48	0.017	0.25
5 0 .. 5 30	0.026	0.60	0.020	0.32	0.009	0.27	0.021	0.23
5 30 .. 6 0	0.017	0.36	0.040	0.53	0.026	0.41	0.018	0.32
Means	0.027	0.53	0.026	0.43	0.025	0.39	0.020	0.28

Table II contains the values of the probable errors of a single observation computed by formula (1), and arranged in the order of magnitudes. The computation was made by multiplying the mean value of v by the coefficients given in the last column on page 10. They represent, therefore, the mean of the values obtained from each group.

All the observations were included in the computation, except a few which were accidentally omitted from the regular reduction-sheets.

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Table II.

Value of the probable error of a single observation arranged in the order of magnitudes.

Limits in α	Magn. 9.3+			Magn. 9.3 .. 9.0			Magn. 9.0 .. 8.5			Magn. 8.5 .. 8.0			Magn. 8.0 .. 7.5			Magn. 7.5 .. 7.0			Magn. 7.0 .. 6.5			Magn. 6.5 .. 6.0		
	No. obs.	α	δ	No. obs.	α	δ	No. obs.	α	δ	No. obs.	α	δ	No. obs.	α	δ	No. obs.	α	δ	No. obs.	α	δ	No. obs.	α	δ
$0^h\ 0^m$.. $0^h 30^m$	29	0.061	0.67	146	0.063	0.60	220	0.060	0.66	149	0.056	0.63	68	0.049	0.58	36	0.038	0.57	16	0.041	0.38	14	0.043	0.55
0 30 .. 1 0	60	0.075	0.73	206	0.072	0.66	235	0.063	0.73	113	0.059	0.54	51	0.043	0.63	22	0.029	0.47	10	0.047	0.56	14	0.031	0.50
1 0 .. 1 30	43	0.088	0.72	145	0.061	0.64	229	0.060	0.59	71	0.065	0.63	37	0.058	0.60	31	0.054	0.64	4	0.115	0.27	4	0.024	0.24
1 30 .. 2 0	36	0.070	0.79	161	0.068	0.70	304	0.066	0.62	124	0.053	0.55	54	0.045	0.60	18	0.046	0.60	26	0.050	0.61	15	0.034	0.26
2 0 .. 2 30	55	0.079	0.60	139	0.066	0.69	222	0.067	0.69	99	0.075	0.65	33	0.043	0.42	23	0.058	0.63	19	0.047	0.45	8	0.108	1.32
2 30 .. 3 0	61	0.080	0.65	128	0.066	0.56	174	0.062	0.61	90	0.054	0.74	41	0.067	0.59	12	0.073	0.98	4	0.099	0.54	19	0.046	0.60
3 0 .. 3 30	51	0.089	0.87	90	0.065	0.76	183	0.063	0.63	55	0.050	0.78	36	0.084	0.66	37	0.053	0.58	22	0.079	0.67	4	0.099	0.63
3 30 .. 4 0	51	0.079	0.78	112	0.079	0.90	158	0.070	0.78	88	0.060	0.73	44	0.046	0.57	21	0.044	0.76	18	0.048	0.73	12	0.050	0.50
4 0 .. 4 30	35	0.052	0.80	109	0.078	0.59	159	0.071	0.61	87	0.056	0.61	39	0.098	0.71	29	0.051	0.41	10	0.043	0.72	7	0.051	0.62
4 30 .. 5 0	38	0.061	0.76	127	0.068	0.69	132	0.056	0.63	101	0.063	0.58	45	0.068	0.76	14	0.044	0.78	5	0.050	0.24	18	0.036	0.45
5 0 .. 5 30	35	0.073	0.76	143	0.076	0.65	178	0.051	0.62	93	0.061	0.59	23	0.043	0.57	16	0.039	0.46	–	—	–	12	0.050	0.70
5 30 .. 6 0	43	0.056	0.76	130	0.056	0.54	208	0.061	0.60	81	0.064	0.64	19	0.037	0.53	26	0.036	0.56	21	0.038	0.59	13	0.036	0.59
6 0 .. 6 30	34	0.068	1.19	93	0.063	0.58	169	0.063	0.64	114	0.042	0.59	34	0.037	0.67	9	0.068	0.69	9	0.066	0.44	3	0.117	0.65
6 30 .. 7 0	61	0.074	0.54	148	0.061	0.66	297	0.058	0.62	106	0.059	0.69	44	0.048	0.53	14	0.044	0.36	4	0.056	0.41	8	0.044	0.68
7 0 .. 7 30	56	0.060	0.89	128	0.056	0.62	225	0.063	0.55	102	0.051	0.51	30	0.047	0.72	19	0.068	0.47	12	0.060	0.39	9	0.042	0.66
7 30 .. 8 0	46	0.066	0.84	91	0.058	0.57	132	0.065	0.63	85	0.051	0.60	8	0.048	0.24	20	0.050	0.56	–	—	—	8	0.055	0.58
8 0 .. 8 30	58	0.067	0.56	104	0.058	0.59	111	0.056	0.48	75	0.066	0.54	33	0.043	0.58	21	0.061	0.50	7	0.050	1.08	16	0.060	0.58
8 30 .. 9 0	40	0.074	0.78	76	0.053	0.54	90	0.054	0.43	71	0.052	0.47	13	0.071	0.51	8	0.030	0.34	7	0.035	0.72	–	—	—
9 0 .. 9 30	64	0.067	0.51	112	0.051	0.54	103	0.065	0.51	42	0.058	0.58	10	0.039	0.55	9	0.093	0.73	20	0.039	0.38	12	0.084	0.49
9 30 .. 10 0	49	0.078	0.65	59	0.050	0.70	127	0.051	0.56	59	0.049	0.55	56	0.044	0.48	16	0.046	0.72	3	0.055	1.14	13	0.044	0.47
10 0 .. 10 30	42	0.057	0.76	103	0.058	0.62	63	0.046	0.65	47	0.056	0.42	37	0.038	0.44	20	0.036	0.30	15	0.068	0.46	4	0.072	0.12
10 30 .. 11 0	56	0.068	0.66	79	0.058	0.48	83	0.054	0.48	47	0.045	0.58	21	0.035	0.45	30	0.053	0.39	6	0.060	0.65	10	0.070	0.58
11 0 .. 11 30	52	0.075	0.75	41	0.058	0.56	121	0.046	0.48	41	0.043	0.45	18	0.033	0.68	8	0.017	0.23	17	0.043	0.42	3	0.052	0.31
11 30 .. 12 0	80	0.078	0.66	110	0.057	0.61	67	0.045	0.43	49	0.072	0.89	12	0.058	0.68	21	0.034	0.62	5	0.031	0.65	3	0.038	0.93
12 0 .. 12 30	68	0.068	0.62	79	0.075	0.61	71	0.064	0.81	44	0.070	0.52	26	0.059	0.70	9	0.031	0.45	8	0.073	0.72	5	0.086	0.84
12 30 .. 13 0	58	0.065	0.66	99	0.070	0.62	89	0.058	0.56	42	0.062	0.49	11	0.045	0.40	16	0.067	0.44	7	0.050	0.42	–	—	—
13 0 .. 13 30	44	0.086	0.98	94	0.080	0.74	149	0.064	0.68	43	0.057	0.90	18	0.050	0.32	21	0.065	0.52	3	0.065	0.93	3	0.086	0.86
13 30 .. 14 0	46	0.072	0.78	91	0.073	0.68	99	0.058	0.73	44	0.073	0.62	41	0.068	0.61	23	0.075	1.08	4	0.005	0.96	13	0.048	0.97
14 0 .. 14 30	36	0.074	0.68	99	0.073	0.75	102	0.052	0.77	53	0.048	0.58	28	0.059	0.65	24	0.058	0.55	–	—	—	18	0.043	0.43
14 30 .. 15 0	36	0.078	0.70	90	0.065	0.60	112	0.054	0.57	34	0.045	0.71	40	0.063	0.75	34	0.041	0.68	7	0.036	0.40	6	0.028	0.90
15 0 .. 15 30	44	0.092	0.69	104	0.071	0.65	114	0.055	0.80	46	0.039	0.65	33	0.053	0.60	20	0.077	0.78	3	0.096	1.76	14	0.051	0.43
15 30 .. 16 0	32	0.057	0.68	95	0.068	0.74	46	0.059	0.68	72	0.044	0.68	19	0.047	0.83	–	—	—	3	0.059	0.38	22	0.042	0.43
16 0 .. 16 30	41	0.055	0.92	94	0.072	1.03	165	0.064	0.59	52	0.051	0.65	17	0.048	0.47	11	0.052	0.24	14	0.038	0.79	–	—	—
16 30 .. 17 0	43	0.048	0.84	109	0.049	0.73	172	0.059	0.70	67	0.038	0.50	30	0.047	0.52	18	0.048	0.50	16	0.037	0.51	–	—	—
17 0 .. 17 30	40	0.073	0.60	123	0.048	0.61	168	0.053	0.63	85	0.044	0.57	27	0.043	0.33	31	0.053	0.50	12	0.049	0.46	7	0.038	0.42
17 30 .. 18 0	43	0.073	0.69	156	0.064	0.57	188	0.057	0.52	84	0.062	0.50	25	0.041	0.55	28	0.051	0.53	3	0.093	0.48	11	0.036	0.47
18 0 .. 18 30	31	0.078	0.78	180	0.066	0.62	237	0.060	0.64	124	0.056	0.67	46	0.058	0.73	22	0.055	0.39	19	0.039	0.44	3	0.010	0.44
18 30 .. 19 0	26	0.078	0.84	147	0.066	0.77	253	0.064	0.66	99	0.077	0.68	37	0.052	0.59	–	—	—	17	0.081	0.77	22	0.088	0.56
19 0 .. 19 30	68	0.087	0.72	150	0.085	0.71	270	0.069	0.56	155	0.066	0.64	45	0.086	0.57	42	0.079	0.79	8	0.034	0.52	13	0.046	0.58
19 30 .. 20 0	36	0.102	0.50	172	0.078	0.68	298	0.064	0.57	130	0.069	0.56	48	0.055	0.76	14	0.052	1.00	19	0.088	0.48	28	0.053	0.68
20 0 .. 20 30	65	0.088	0.69	191	0.075	0.63	295	0.070	0.62	119	0.068	0.67	73	0.075	0.54	53	0.067	0.50	13	0.064	0.71	14	0.054	0.29
20 30 .. 21 0	36	0.102	0.85	202	0.068	0.65	267	0.075	0.50	81	0.063	0.48	41	0.080	0.58	30	0.078	0.82	35	0.054	0.46	19	0.045	0.31
21 0 .. 21 30	44	0.105	0.92	171	0.092	0.62	235	0.070	0.64	132	0.058	0.65	100	0.062	0.58	40	0.062	0.54	17	0.035	0.37	23	0.044	0.62
21 30 .. 22 0	65	0.059	0.72	210	0.065	0.56	295	0.060	0.53	121	0.066	0.63	55	0.057	0.48	51	0.045	0.67	16	0.032	0.39	21	0.034	0.37
22 0 .. 22 30	69	0.077	0.60	195	0.061	0.58	357	0.070	0.59	159	0.062	0.56	68	0.053	0.51	30	0.041	0.47	21	0.058	0.60	7	0.038	0.54
22 30 .. 23 0	80	0.088	0.65	151	0.075	0.61	341	0.066	0.63	137	0.074	0.62	76	0.057	0.45	29	0.059	0.58	15	0.070	0.76	18	0.070	0.69
23 0 .. 23 30	95	0.069	0.87	256	0.081	0.65	352	0.066	0.71	133	0.062	0.50	44	0.058	0.55	52	0.086	0.77	4	0.030	0.60	10	0.029	0.83
23 30 .. 24 0	65	0.088	0.60	200	0.069	0.72	324	0.067	0.69	153	0.065	0.69	66	0.071	0.61	38	0.059	0.73	10	0.064	0.76	12	0.102	0.72
Means	2386	0.074	0.73	6238	0.067	0.65	8989	0.061	0.61	4178	0.058	0.61	1820	0.054	0.57	1116	0.054	0.58	534	0.055	0.60	518	0.054	0.68

It will be observed that the mean values of the probable errors given in Table II, diminish with the magnitude, but that the diminution ceases at about $8^m.0$.

Between $9^m.3$ and $8^m.0$ P.E. = 0.065 for α and 0.65 for δ
Between $8^m.0$ and $6^m.0$ P.E. = 0.054 for α and 0.58 for δ
For the entire series P.E. = 0.060 for α and 0.61 for δ

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It will be shown subsequently that the observations for 1883 and 1884 are less reliable than for the preceding years. Limiting the discussion of the probable error to the years from 1870 to 1878 inclusive, the value derived from the entire series of observations is found to be:

P.E. = $0^s.054$ for α and $0''.55$ for δ

In order to give a comprehensive view of the values of the probable error depending on the number of stars forming a group, the computed values are arranged in Table III in a form which will facilitate this comparison.

Table III.

Probable errors of a single observation, arranged in groups of two, three, four, and more than four observations for each star.

Limits in α	I	II	III	IV	I	II	III	IV	Limits in α	I	II	III	IV	I	II	III	IV
$0^h\ 0^m$.. $0^h 30^m$	0.051	0.051	0.049	0.057	0.61	0.51	0.52	0.72	$12^h\ 0^m$.. $12^h 30^m$	0.054	0.070	0.071	0.071	0.57	0.66	0.72	0.66
0 30 .. 1 0	0.045	0.056	0.061	0.061	0.58	0.61	0.66	0.64	12 30 .. 13 0	0.042	0.050	0.064	0.092	0.48	0.46	0.59	0.60
1 0 .. 1 30	0.052	0.065	0.069	0.078	0.46	0.57	0.57	0.84	13 0 .. 13 30	0.059	0.073	0.043	0.096	0.72	0.68	0.67	0.83
1 30 .. 2 0	0.053	0.049	0.062	0.060	0.61	0.53	0.55	0.77	13 30 .. 14 0	0.059	0.074	0.050	0.081	0.54	0.97	0.78	0.75
2 0 .. 2 30	0.055	0.057	0.073	0.076	0.63	0.62	0.60	0.64	14 0 .. 14 30	0.050	0.055	0.064	0.066	0.50	0.64	0.64	0.78
2 30 .. 3 0	0.050	0.075	0.080	0.058	0.69	0.71	0.60	0.59	14 30 .. 15 0	0.038	0.058	0.050	0.075	0.73	0.63	0.61	0.66
3 0 .. 3 30	0.073	0.056	0.080	0.066	0.68	0.75	0.67	0.74	15 0 .. 15 30	0.055	0.060	0.063	0.075	0.56	0.82	0.71	0.76
3 30 .. 4 0	0.052	0.077	0.052	0.065	0.65	0.70	0.90	0.60	15 30 .. 16 0	0.060	0.055	0.045	0.054	0.51	0.64	0.73	0.87
4 0 .. 4 30	0.047	0.068	0.071	0.069	0.59	0.75	0.61	0.54	16 0 .. 16 30	0.047	0.056	0.057	0.064	0.59	0.65	0.88	0.76
4 30 .. 5 0	0.043	0.077	0.052	0.065	0.58	0.70	0.78	0.60	16 30 .. 17 0	0.036	0.053	0.048	0.053	0.57	0.54	0.77	0.66
5 0 .. 5 30	0.045	0.071	0.061	0.058	0.54	0.77	0.60	0.61	17 0 .. 17 30	0.053	0.043	0.054	0.056	0.54	0.43	0.69	0.53
5 30 .. 6 0	0.047	0.049	0.051	0.051	0.53	0.72	0.64	0.57	17 30 .. 18 0	0.053	0.064	0.054	0.060	0.49	0.57	0.52	0.62
6 0 .. 6 30	0.043	0.062	0.053	0.072	0.81	0.62	0.55	0.69	18 0 .. 18 30	0.051	0.048	0.067	0.065	0.56	0.66	0.54	0.67
6 30 .. 7 0	0.048	0.062	0.048	0.067	0.56	0.63	0.62	0.53	18 30 .. 19 0	0.061	0.079	0.070	0.071	0.53	0.79	0.77	0.72
7 0 .. 7 30	0.050	0.067	0.050	0.053	0.54	0.71	0.64	0.61	19 0 .. 19 30	0.050	0.088	0.073	0.082	0.48	0.71	0.66	0.78
7 30 .. 8 0	0.044	0.062	0.064	0.064	0.42	0.55	0.86	0.66	19 30 .. 20 0	0.056	0.080	0.070	0.080	0.63	0.59	0.59	0.83
8 0 .. 8 30	0.044	0.053	0.060	0.077	0.62	0.57	0.41	0.69	20 0 .. 20 30	0.052	0.067	0.088	0.077	0.48	0.69	0.63	0.58
8 30 .. 9 0	0.051	0.058	0.048	0.068	0.46	0.54	0.64	0.60	20 30 .. 21 0	0.061	0.076	0.067	0.084	0.55	0.61	0.46	0.73
9 0 .. 9 30	0.044	0.061	0.067	0.066	0.51	0.47	0.50	0.63	21 0 .. 21 30	0.046	0.078	0.068	0.077	0.61	0.68	0.58	0.64
9 30 .. 10 0	0.047	0.049	0.064	0.058	0.58	0.68	0.58	0.59	21 30 .. 22 0	0.048	0.051	0.055	0.067	0.45	0.62	0.62	0.61
10 0 .. 10 30	0.049	0.046	0.057	0.059	0.32	0.60	0.63	0.60	22 0 .. 22 30	0.054	0.061	0.057	0.068	0.45	0.54	0.62	0.67
10 30 .. 11 0	0.043	0.051	0.043	0.077	0.54	0.43	0.53	0.57	22 30 .. 23 0	0.055	0.067	0.073	0.091	0.53	0.52	0.64	0.79
11 0 .. 11 30	0.035	0.054	0.048	0.053	0.52	0.53	0.52	0.49	23 0 .. 23 30	0.049	0.085	0.071	0.067	0.60	0.64	0.76	0.72
11 30 .. 12 0	0.058	0.060	0.056	0.048	0.51	0.80	0.66	0.64	23 30 .. 24 0	0.054	0.089	0.075	0.071	0.62	0.80	0.67	0.64

The increase of the values for magnitudes fainter than 8.0, over those for magnitudes brighter than 8.0 will appear from the following table. The numbers represent the resulting values of the probable error for the limiting magnitudes from 9.3 to 8.0 and from 8.0 to 6.0. They are arranged in groups of 3 hours each.

Table IV.

Limits in α	P.E. in α		P.E. in δ	
	$9^m.3$.. $8^m.0$	$8^m.0$.. $6^m.0$	$9^m.3$.. $8^m.0$	$8^m.0$.. $6^m.0$
0^h.. 3^h	0.066	0.057	0.61	0.57
3 .. 6	0.065	0.053	0.70	0.60
6 .. 9	0.060	0.054	0.63	0.56
9 .. 12	0.058	0.049	0.59	0.54
12 .. 15	0.066	0.054	0.68	0.65
15 .. 18	0.065	0.052	0.67	0.56
18 .. 21	0.075	0.061	0.66	0.59
21 .. 24	0.072	0.055	0.65	0.57
Means	0.066	0.054	0.64	0.58

Second method of computing the value of the probable errors.

According to the plan of observation adopted, the zone stars selected as a working list, were observed for the most part on successive dates. The mean difference of the reduced positions for these two dates ought therefore to be zero, if the adopted values of $\Delta T + m$, of the equator point correction, and of flexure constant represent the real corrections, and if the accidental errors of observation can be considered as eliminated.

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It could hardly be expected that this condition would be fulfilled, especially since the effect of personality on the part of the observer, as respects bright and faint stars, would not be eliminated by this process of observation. All variations due to the character of the images of the stars would also appear in these differences.

The data which form the basis of this part of the discussion are given in Table V. The first column contains the two dates compared. The second column contains the indication of the character of the images.

The letters employed have the following significations:

A	Very fine images indeed.
B	Moderately good images.
C	Rather bad images.
D	Very bad images indeed.
C′	Light clouds.
H	Hazy.

Columns 3 and 4 contain the mean values of $\Delta\alpha_o$, and $\Delta\delta_o$, found by subtracting the reduced position for the second date, from that given for the first date, and taking the mean of the differences thus obtained. The remaining columns contain the differences arranged in the order of the indicated magnitudes together with the number of pairs of stars.

Table V.

Values of $\Delta\alpha$ and $\Delta\delta$ for Date I minus Date II, arranged in the order of Magnitudes.

Dates I	Dates II	Images I	Images II	$\Delta\alpha_o$	$\Delta\delta_o$	$9^m.5 \cdot\cdot 8^m.5$ No. Stars	$9^m.5 \cdot\cdot 8^m.5$ $\Delta\alpha$	$9^m.5 \cdot\cdot 8^m.5$ $\Delta\delta$	$8^m.5 \cdot\cdot 7^m.5$ No. Stars	$8^m.5 \cdot\cdot 7^m.5$ $\Delta\alpha$	$8^m.5 \cdot\cdot 7^m.5$ $\Delta\delta$	$7^m.5 \cdot\cdot 6^m.5$ No. Stars	$7^m.5 \cdot\cdot 6^m.5$ $\Delta\alpha$	$7^m.5 \cdot\cdot 6^m.5$ $\Delta\delta$
1870														
Dec. 10	Dec. 13	B	B	+0.050	+0.04	33	+0.059	+0.15	20	+0.039	−0.13	6	+0.037	−0.05
Dec. 18	Dec. 22	B	B	−0.057	−0.26	52	−0.067	−0.38	34	−0.040	−0.06	4	−0 072	−0.49
Dec. 26	Dec. 31	B C′	B	−0.020	+0.78	1	−0.160	+0.24	3	−0.020	+0.78	–	—	—
Dec. 31	Jan. 1	B	C C′	—	—	–	—	—	–	—	—	–	—	—
Dec. 31	Jan. 7	B	C	—	—	–	—	—	–	—	—	–	—	—
1871														
Jan. 10	Jan. 17	B	B C′	−0.080	+0.02	18	−0.080	+0.05	4	−0.085	−0.10	5	−0.078	−0.01
Jan. 17	Feb. 7	B C	B	+0.015	−0.06	51	+0.020	+0.08	16	−0.004	−0.50	7	+0.026	−0.07
Jan. 1	Jan. 7	C′	C	−0.037	−0.94	3	−0.013	−1 61	3	−0.060	−0.26	–	—	—
Feb. 11	Feb. 20	C	B	−0.061	−0.27	21	−0.060	−0.31	6	−0.062	−0.16	–	—	—
Feb. 11	Feb. 21	C	B	−0.010	−0.62	11	−0.009	−0.65	1	−0.020	−0.33	–	—	—
Feb. 21	Feb. 20	B	B	−0.027	+0.06	11	−0.026	−0.03	1	−0.030	+1.01	–	—	—
Feb. 21	Feb. 28	B	B	−0.069	−0.91	18	−0.052	−1.47	8	−0.084	−1.10	3	−0.133	−0.31
Mar. 1	Mar. 5	B H	B H	+0.053	−0.25	18	+0.072	−0.32	9	+0.017	−0.05	3	+0.050	−0.49
Mar. 2	Mar. 5	B	B H	+0.045	−0.73	20	+0.043	−0.67	7	+0.060	−1.02	2	+0.015	−0.33
Mar. 7	Mar. 9	B	C C′ H	−0.113	−0.23	33	−0.120	−0.16	19	−0.103	−0.06	3	−0.133	−1.93
Mar. 22	Mar. 25	B	B	+0.002	+0.40	31	+0.023	+0.38	14	−0.034	+0.70	5	+0.036	−0.24
Mar. 14	Mar. 28	B	B	+0.035	+0.80	17	+0.052	+0.97	10	+0.006	+0.80	2	+0.040	−2.09
Mar. 29	Apr. 5	B	B C	−0.073	−0.50	7	−0.106	−0.80	3	+0.007	+0.35	1	−0.080	−1.26
Apr. 5	Apr. 6	B C	B	+0.053	−0.56	18	+0.054	−0.59	3	+0.080	+0.05	4	+0.028	−0.88
Apr. 6	Apr. 17	B	B	−0.002	+0.21	8	−0.028	−0.28	7	+0.011	+0.56	3	+0.037	+0.68
Apr. 18	Apr. 17	C C′	B	+0.099	+0.57	6	+0.112	+0.39	1	+0.020	+1.64	–	—	—
Apr. 17	Apr. 24	B	B	−0.005	−0.32	2	−0.025	−0.14	2	+0.015	−0.50	–	—	—
Apr. 18	Apr. 24	B C′	B	+0.025	−0.63	13	+0.013	−0.50	7	+0.057	−0.65	6	+0.015	−0.87
Apr. 26	Apr. 29	B	B	+0.042	−0.62	19	+0.043	−0.68	5	+0.030	−0.49	1	+0.080	−0.17
May 1	May 2	C C′	C C′	+0.051	−0.58	5	+0.074	−0.46	2	+0.030	−0.60	1	−0.020	−1.16
May 7	May 15	B	B	−0.034	−0.37	14	−0.050	−0.49	5	+0.010	−0.05	–	—	—
May 7	May 12	B	B	+0.044	+0.40	2	−0.030	+0.22	3	+0.093	+0.53	–	—	—
May 12	May 15	B	B	−0.100	−0.03	2	−0.100	−0.03	–	—	—	–	—	—
May 10	May 11	B	C H C′	−0.059	−0.47	17	−0.058	−0.34	5	−0.076	−0.80	2	−0.025	−0.79
May 13	May 14	C	B	+0.085	−1.32	25	+0.088	−0.85	11	+0.084	−2.02	5	+0.072	−2.07
May 18	May 23	B	B	−0.026	+0.42	25	−0.032	+0.29	12	−0.053	+0.66	4	+0.095	+0.58
May 18	May 24	B	B	+0 028	+1.13	20	+0.013	+1.05	7	+0.056	+1.05	2	+0.085	+2.26
May 23	May 24	B	B	+0.041	+0.98	20	+0.057	+0.93	8	+0.009	+1.15	2	+0.010	+0.76
May 20	May 21	B	B	−0.032	−0.52	16	−0.046	−0.42	2	+0.025	−0.79	3	+0.007	−0.82
May 25	May 29	B	B	+0.100	−0.99	22	+0.015	−0.80	13	+0.160	−1.17	13	+0.187	−1.13

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_0$	$\Delta\delta_0$	$9^m.5 - 8^m.5$ No. Stars	$9^m.5 - 8^m.5$ $\Delta\alpha$	$9^m.5 - 8^m.5$ $\Delta\delta$	$8^m.5 - 7^m.5$ No. Stars	$8^m.5 - 7^m.5$ $\Delta\alpha$	$8^m.5 - 7^m.5$ $\Delta\delta$	$7^m.5 - 6^m.5$ No. Stars	$7^m.5 - 6^m.5$ $\Delta\alpha$	$7^m.5 - 6^m.5$ $\Delta\delta$
(1871)														
May 26	May 27	C	B	−0.034	0.00	13	−0.024	−0.05	4	−0.070	−0.06	1	−0.050	+0.86
June 2	June 4	B	B	+0.063	−1.34	22	+0.045	−1.32	9	+0.106	−1.14	1	+0.070	—
June 3	June 5	C C′	B	−0.038	−0.24	35	−0.069	−0.24	13	+0.013	−0.28	5	+0.042	−0.13
June 6	June 12	B	B	+0.055	+0.23	20	+0.060	+0.06	13	+0.063	+0.20	6	+0.023	+0.99
June 14	June 17	B	C	+0.040	+0.12	36	+0.036	+0.32	9	+0.080	−0.22	6	+0.007	−0.55
June 19	June 21	B	B	−0.065	+0.99	24	−0.066	+1.06	16	−0.064	+0.96	5	−0.064	+0.75
June 25	June 26	B	B	−0.052	+0.14	22	−0.054	+0.04	12	−0.054	+0.40	3	−0.033	−0.09
June 9	June 25	B	B	−0.005	−0.99	13	−0.032	−1.16	5	−0.004	−1.24	4	+0.085	−0.14
June 27	June 30	B H C	B	−0.053	+1.03	23	−0.044	+0.79	12	−0.068	+1.54	2	−0.060	+0.80
July 1	July 3	D C′	B	+0.061	−0.81	37	+0.051	−1.06	9	+0.060	−0.01	6	+0.120	−0.46
July 5	July 12	C	C C′	−0.091	+0.18	22	−0.095	+0.25	10	−0.073	+0.18	7	−0.103	−0.08
July 7	July 17	B	B	−0.015	+0.77	11	−0.012	+0.92	6	−0.035	+0.70	5	+0.004	+0.51
July 20	July 22	B	B	+0.100	−0.44	26	+0.105	−0.48	8	+0.100	−0.29	3	+0.060	−0.44
July 23	July 27	B	B	+0.009	+0.33	7	+0.036	+0.86	8	−0.014	−0.07	—	—	—
Aug 2	Aug. 3	B	B H C′	+0.078	+0.89	33	+0.065	+1.00	13	+0.010	+0.91	11	+0.091	+0.38
Aug. 9	Aug. 10	B	B	−0.014	−0.62	12	−0.007	−0.52	4	−0.010	−1.09	1	−0.110	+0.10
Aug. 5	Aug. 13	C C′	B	+0.035	+0.51	32	+0.045	+0.46	7	+0.030	+0.35	6	−0.013	+0.91
Aug. 11	Aug. 17	B C′	B	−0.020	−0.40	6	−0.013	−0.03	3	−0.033	−1.13	—	—	—
Aug. 18	Aug. 19	B	B C′	+0.037	+0.02	37	+0.049	+0.03	14	+0.083	−0.05	1	−0.040	+0.60
Aug. 22	Aug. 28	B	B	+0.138	+0.60	31	+0.146	+0.70	5	+0.166	+0.72	7	+0.083	+0.05
Aug. 31	Sept. 1	B	B	+0.068	+0.18	53	+0.060	+0.15	13	+0.091	+0.28	4	+0.102	+0.22
Sept. 2	Sept. 7	B	C C′	+0.026	−0.96	23	+0.001	−1.05	15	+0.073	−0.68	6	+0.003	−1.30
Sept. 18	Sept. 21	B	B	+0.061	+0.93	36	+0.068	+0.94	12	+0.042	+1.07	3	+0.050	+0.40
Sept. 23	Sept. 28	B H	B C′	+0.002	+0.22	20	+0.004	+0.31	9	−0.003	+0.53	2	+0.005	—
Sept. 23	Oct. 5	B H	B	−0.010	−0.41	14	−0.001	−0.62	4	−0.050	+0.77	2	+0.015	−0.72
Sept. 28	Oct. 9	B C′	B	+0.026	−0.03	25	+0.008	+0.06	6	+0.010	−0.24	2	+0.040	−0.54
Oct. 21	Nov. 2	B	B C	−0.019	−0.46	26	−0.018	−0.50	3	+0.003	−0.51	4	−0.050	−0.19
Oct. 16	Oct. 17	C	B	+0.040	+0.71	36	+0.047	+0.70	10	+0.031	+0.74	2	−0.030	+0.94
Oct. 22	Nov. 2	B H	B C	+0.005	+1.15	23	+0.010	+1.28	6	−0.007	+0.38	2	−0.005	+1.84
Nov. 7	Nov. 9	B	B	−0.002	−0.47	39	−0.004	−0.42	9	−0.002	−0.55	4	+0.012	−0.94
Nov. 7	Nov. 6	B	B	+0.066	+0.02	11	+0.066	+0.02	—	—	—	—	—	—
Nov. 6	Nov. 9	B	B	−0.032	−0.37	10	−0.037	−0.46	1	−0.020	+0.45	—	—	—
Nov. 19	Nov. 22	B	B	+0.012	+0.36	15	−0.002	+0.56	9	+0.033	+0.10	1	+0.020	−0.26
Nov. 23	Nov. 25	B	A	−0.043	−0.71	15	−0.032	−0.66	10	−0.042	−0.98	1	−0.210	+1.16
Dec. 1	Dec. 2	B	B	−0.049	−0.09	12	−0.056	0.00	1	0.000	−2.13	3	−0.040	+0.23
Dec. 9	Dec. 12	B	B	−0.023	+0.40	8	−0.014	+0.68	5	−0.038	−0.05	—	—	—
Dec. 20	Dec. 27	B C	B	−0.034	−0.45	20	−0.029	−0.28	10	−0.042	−0.78	1	−0.020	−0.57
1872														
Jan. 2	Jan. 8	D	B	+0.014	+0.16	25	+0.080	+0.25	4	−0.002	−0.65	2	+0.110	+0.66
Jan. 10	Jan. 12	B	C H	−0.031	+0.13	11	−0.034	+0.57	2	+0.010	−1.92	1	−0.090	−0.62
Jan. 10	Jan. 24	B	B	−0.018	+0.25	6	−0.020	+0.02	3	−0.013	+0.89	1	−0.030	−0.25
Jan. 24	Jan. 31	B	D	+0.065	−1.04	7	+0.011	−0.61	8	+0.114	−1.28	2	+0.060	−1.62
Feb. 1	Feb. 4	B C	B	−0.022	−0.10	15	−0.026	−0.04	5	+0.018	−0.49	3	−0.070	+0.23
Feb. 7	Feb. 8	B	C	−0.030	−0.30	17	−0.034	−0.31	3	+0.020	−0.36	1	−0.110	+0.12
Feb. 12	Feb. 14	A	A	+0.014	+0.87	10	+0.026	+0.90	4	−0.020	+0.80	—	—	—
Feb. 16	Feb. 17	B	B	+0.007	+0.27	13	+0.030	+0.20	7	−0.031	+0.18	1	−0.010	+1.82
Feb. 27	Mar. 11	D	B	−0.002	−1.48	6	+0.003	−1.40	1	+0.020	−2.78	1	−0.060	−0.65
Feb. 27	Feb. 24	D	B H	−0.128	+0.64	2	−0.095	+0.51	—	—	—	2	−0.160	+0.76
Feb. 24	Mar. 11	B H	B	+0.056	−1.05	14	+0.041	−1.06	4	+0.095	−0.45	1	+0.120	−1.26
Mar. 14	Mar. 18	B	B	−0.024	−0.30	13	−0.030	−0.36	3	+0.003	−0.33	2	−0.040	+0.16
Mar. 21	Mar. 27	B	B	−0.043	−0.56	11	−0.023	−0.37	5	−0.088	−0.97	—	—	—
Mar. 28	Apr. 4	B	B	−0.036	+0.12	5	−0.036	+0.12	—	—	—	—	—	—
Apr. 10	Apr. 11	B C	C	−0.008	+0.35	19	−0.030	+0.30	3	−0.057	+0.87	3	+0.047	+0.14
June 3	June 9	B	B	+0.078	−0.43	10	+0.079	−0.43	—	—	—	2	+0.070	−0.42
June 30	July 6	B	B	+0.021	+0.02	14	+0.011	+0.01	5	+0.008	+0.39	3	+0.090	−0.52
July 7	July 9	B H	A	−0.046	−0.07	22	−0.037	−0.15	2	−0.025	+0.36	3	−0.120	+0.22
July 11	July 14	B H	B	+0.049	+0.67	11	+0.033	+0.78	3	+0.083	+0.34	4	+0.070	+0.62
July 16	July 22	B	B	+0.004	−0.25	6	+0.023	−0.51	1	+0.080	−0.25	4	−0.045	+0.13

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_o$	$\Delta\delta_o$	$9^m.5 \cdot\cdot 8^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$8^m.5 \cdot\cdot 7^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$7^m.5 \cdot\cdot 6^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$
(1872)														
July 24	July 27	B	B	+0.022	+0.54	5	+0.040	+0.63	4	0.000	+0.42	–	—	—
Aug. 1	Aug. 5	B	B	+0.068	+0.56	7	+0.067	+0.79	5	+0.080	+0.48	4	+0.052	+0.28
Sept. 28	Oct. 2	D	B	+0.021	+0.05	15	+0.023	+0.31	6	+0.017	−0.48	3	+0.020	−0 11
Oct. 3	Oct. 12	B	D	0.000	−0.08	8	+0.040	+0.13	6	−0.055	−0.41	2	−0.025	+0.01
Nov. 16	Nov. 17	A	B	+0.071	−0.72	9	+0.110	−0.47	2	−0.040	−0.80	1	−0.060	−2.85
Nov. 16	Nov. 20	A	B	+0.071	+0.96	7	+0.081	+1.05	2	+0.035	+0.99	1	+0.070	+0.24
Nov. 20	Nov. 17	B	B	+0.041	−1.32	6	+0.025	−1.04	2	+0.090	−2.17	–	—	—
Nov. 17	Nov. 20	B	B	+0.023	+1.25	9	+0.051	+1.43	2	−0.070	+1.76	1	−0.040	−1.32
Nov. 23	Nov. 27	B	B	+0 016	+0.50	15	+0.015	+0.34	4	+0.035	+0.84	2	−0.005	+1.02
Nov. 23	Dec. 7	B	C	−0.050	+0.63	7	−0.070	+0.40	2	−0.035	+0.38	2	+0.005	+1.70
Dec. 23	Dec. 30	C C′ H	B	+0.007	+1.53	7	+0.003	+1.62	3	+0.017	+1.30	–	—	—
1873														
Jan. 4	Jan. 6	B	A	+0.023	+0.13	20	+0.044	+0.14	8	−0.034	+0.06	5	+0.026	+0.18
Jan. 7	Jan. 9	D	B	−0.084	+1.70	13	−0.082	+1.74	1	−0.220	+2.76	1	+0.030	+0.12
Jan. 9	Jan. 14	B	C C′ H	+0.010	−0.14	4	+0.030	+0.06	3	−0.003	−0.36	2	−0.005	−0.21
Jan. 14	Jan. 19	C C′ H	B H	−0.025	−0.62	11	−0.015	−0.68	1	−0.090	0.00	1	−0.070	−0.63
Feb. 2	Feb. 5	B	B	+0.032	−0.33	9	+0.037	−0.31	3	+0.017	−0.36	–	—	—
Feb. 2	Feb. 4	B	C H	+0.050	−0.14	4	+0.050	−0.14	–	—	—	–	—	—
Feb. 2	Jan. 28	B	C C′	+0.130	+0.30	6	+0.130	+0.30	–	—	—	–	—	—
Feb. 4	Jan. 28	C C′ H	C H	+0.110	+1.22	3	+0.110	+1.22	–	—	—	–	—	—
Feb. 5	Feb. 6	B	A	+0.036	+0.26	18	+0.034	+0.16	7	+0.050	+0.70	4	+0.020	−0.08
Feb. 10	Feb. 17	C B	A	+0.014	−0.14	14	+0.032	−0.10	5	−0.010	−0.53	1	−0.110	+1.09
Feb. 10	Feb. 11	C B	B H	+0.004	−0.72	11	+0.009	−0.61	4	+0.012	−1.35	1	−0.090	+0.62
Feb. 11	Feb. 17	B H	A	+0.021	+0.93	18	+0.025	+0.96	5	+0.018	+0.90	5	+0.008	+0.86
Feb. 22	Feb. 24	C	C	−0.041	+0.22	17	−0.054	+0.24	6	−0.027	+0.16	4	−0.012	+0.24
Feb. 25	Mar. 4	B	D	−0.101	+0.79	15	−0.127	+0.87	6	−0.045	+0.60	1	−0.040	+0.79
Feb. 25	Mar. 5	A	B C	+0.027	−0.15	24	+0.008	−0.14	6	+0.115	+0.12	2	−0.010	−1.08
Mar. 5	Mar. 4	A	D	−0.114	+0.78	18	−0.118	+1.03	6	−0.108	+0.12	2	−0.100	+0.55
Mar. 6	Mar. 8	B	B C	−0.010	−0.25	20	−0.025	−0.22	5	+0.070	−0.02	2	−0.055	−1.06
Mar. 10	Mar. 13	B	A	+0.081	+0.02	22	+0.080	+0.01	7	+0.070	0.00	1	+0.180	+0.31
Mar. 27	Mar. 30	B	B	+0.040	−0.48	22	+0.027	−0.42	10	+0.068	−0.60	2	+0.035	−0.44
Apr. 1	Apr. 10	B	A	+0.014	+0.34	21	+0.030	+0.46	4	−0.010	+0.28	4	−0.045	−0.20
Apr. 23	Apr. 26	A	B	−0.015	−0.07	4	−0.008	−0.20	5	−0.014	+0.14	2	−0.030	−0.32
Apr. 23	Apr. 27	A	B	−0.040	+0.44	16	−0.055	+0.51	9	−0.006	+0.36	2	−0.075	+0.20
Apr. 26	Apr. 27	B	B	−0.035	+0.44	4	−0.062	+0.83	5	−0.008	+0.10	2	−0.045	+0.49
May 4	May 12	B	B	+0.028	+0.07	2	+0.040	−0.84	1	0.000	+1.30	1	+0.030	+0.65
May 13	May 15	B	B	+0.016	−0.92	15	+0.015	−0.95	1	+0.020	−1.17	1	+0 040	−0.29
May 13	May 12	B	B	+0.108	−0.97	5	+0.132	−0.81	–	—	—	1	−0.010	−1.77
May 12	May 15	B	B	−0.056	+0.26	5	−0.056	+0.08	–	—	—	2	−0.055	+0.70
May 13	May 25	B	B	−0.006	+0.04	11	−0.023	+0.48	4	+0.042	−0.74	1	−0.020	−1.68
June 11	June 17	B	B	−0.019	+0.07	16	−0.012	+0.08	3	−0.007	+0.21	2	−0.095	−0.23
June 25	June 29	B	B	+0.022	+0.11	15	+0.040	+0.27	7	+0.013	−0.13	3	−0.003	−0.12
July 6	July 9	D	D	+0.076	+0.27	3	+0 090	+0.28	2	+0.105	+0.30	3	+0.043	+0.24
July 30	Aug. 5	B	B	+0.002	+0.58	14	−0.006	+0.79	7	−0.006	+0.02	2	+0.085	+1.05
Aug. 9	Aug. 11	C	D	−0.034	+0.13	12	−0.075	+0.08	6	+0.020	+0.24	2	+0.055	+0.07
Oct. 5	Oct. 9	D	C	+0.044	+0.28	18	+0.056	+0.41	7	+0.010	−0.32	8	+0.048	+0.52
Oct. 21	Oct. 22	B	A	−0.057	0.00	4	−0.080	−0.08	2	−0.020	+0.27	1	−0.040	−0.20
Oct. 22	Oct. 28	A	B	+0.008	−0.24	23	+0.008	−0.29	10	+0.013	−0.05	4	−0.035	−0.62
Nov. 1	Nov. 2	B	A	−0.011	+0.59	30	−0.004	+0.76	13	−0.030	+0.15	3	+0.010	+0.77
Nov. 4	Nov. 5	B C H	D	−0.074	−0.41	11	−0.086	−0.77	5	−0.048	+0.38	–	—	—
Nov. 4	Nov. 6	B C H	D	−0.056	+0.35	33	−0.057	+0.42	7	−0.047	+0.26	4	−0.060	+0.04
Nov. 5	Nov. 6	D	D	+0.010	+0.78	11	+0.006	+1.15	6	+0.017	+0.11	–	—	—
Nov. 10	Dec. 7	D	D	+0.019	+0.63	32	−0.014	+1.00	7	+0.022	−0.33	4	−0.060	−0.64
Nov. 18	Nov. 19	B	C	+0.067	+0.34	19	+0.077	+0.18	9	+0.053	+0.73	1	0.000	−0.06
Dec. 10	Dec. 16	D	A	+0.098	+1.01	11	+0.009	+1.07	1	+0.140	+0.33	–	—	—
Dec. 9	Dec. 10	A C′	A	+0.062	−0.02	21	+0.060	−0.05	5	+0.084	+0.47	4	+0.060	−0.53
Dec. 10	Dec. 15	A	D	−0.028	+0.44	6	−0.013	+0.51	2	−0.065	+0.24	–	—	—

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_0$	$\Delta\delta_0$	$9^m.5 - 8^m.5$ No. Stars	$9^m.5 - 8^m.5$ $\Delta\alpha$	$9^m.5 - 8^m.5$ $\Delta\delta$	$8^m.5 - 7^m.5$ No. Stars	$8^m.5 - 7^m.5$ $\Delta\alpha$	$8^m.5 - 7^m.5$ $\Delta\delta$	$7^m.5 - 6^m.5$ No. Stars	$7^m.5 - 6^m.5$ $\Delta\alpha$	$7^m.5 - 6^m.5$ $\Delta\delta$
(1873)														
Dec. 15	Dec. 16	D	A	+0°.086	+0'.50	5	+0°.078	+0'.65	2	+°.0105	+0'.14	–	—	—
Dec. 16	Dec. 18	A	A	−0.029	−0.51	37	−0.041	−0.47	10	−0.004	−0.56	5	+0°.004	−0'.66
Dec. 16	Dec. 17	A	B	+0.034	−0.71	11	+0.045	−0.59	3	+0.040	−0.94	3	−0.013	−0.94
Dec. 17	Dec. 18	B	A	−0.066	−0.04	11	−0.076	−0.31	3	−0.077	+0.65	3	−0.020	+0.22
1874														
Dec. 29	Jan. 20	B C′	B	—	—	–	—	—	–	—	—	–	—	—
Jan. 17	Jan. 18	D	B	+0.015	−1.68	15	+0.009	−1.73	4	+0.040	−1.67	7	+0.016	−1.57
Feb. 10	Feb. 11	A	A	+0.060	−0.18	15	+0.057	−0.11	3	+0.070	−0.35	2	+0.070	−0.38
Feb. 4	Feb. 10	A	A	−0.027	−1.11	16	−0.016	−1.26	9	−0.057	−0.85	2	+0.015	−1.06
Feb. 11	Feb. 12	A	A	+0.037	+0.29	15	+0.034	+0.21	2	+0.050	+0 05	1	+0.060	+1.90
Feb. 14	Feb. 17	B H	B H	−0.027	+1.13	20	−0.039	+1.44	6	+0.020	+0.90	4	−0.040	+0.91
Feb. 18	Feb. 24	C D	C	−0.138	−0.27	34	−0.140	−0.17	4	−0.150	−0.79	2	−0.115	−0.64
Feb. 18	Feb. 14	C D	B H	—	—	–	—	—	–	—	—	–	—	—
Feb. 14	Feb. 24	B H	C	—	—	–	—	—	–	—	—	–	—	—
Mar. 1	Mar. 2	A	B	−0.027	−0.54	24	−0.031	−0.50	11	−0.023	−0.69	3	−0.007	−0.22
Mar. 4	Mar. 5	B	C H	+0.019	+1.70	16	+0.030	+1.67	3	−0.033	+1.84	–	—	—
Mar. 5	Mar. 22	B	B	+0.022	−0.97	2	+0.010	−0.98	2	+0.035	−0.97	–	—	—
Mar. 22	Mar. 23	B	B	−0.057	+1.07	16	−0.047	+1.15	3	−0.103	−0.12	2	−0.065	+2.22
Mar. 22	Mar. 21	A	B	+0.160	+0.96	2	+0.160	+0.96	–	—	—	–	—	—
Mar. 21	Mar. 23	B	B	−0.117	+0.46	3	−0.117	+0.46	–	—	—	–	—	—
Mar. 24	Mar. 30	B	A	+0.001	−0.53	22	+0.004	−0.34	5	−0.014	−0.78	4	+0.005	−1.28
Apr. 2	Apr. 6	D	B	+0.102	−0.47	30	+0.111	−0.51	10	+0.078	−0.49	3	+0.097	−0.02
Apr. 16	Apr. 22	D	B	+0.032	−1.10	20	+0.026	−1.23	4	+0.065	−0.86	2	+0.025	−0.38
May 7	May 11	D	D	−0.041	−0.15	23	−0.044	−0.14	2	−0.005	−0.24	–	—	—
May 12	May 14	B H	B	−0.027	+0.36	28	+0.028	+0.38	5	+0.022	+0.52	3	+0.020	−0.06
May 19	May 26	C	B	+0.037	+0.75	23	+0.047	+0.79	5	+0.028	+0.41	3	−0.023	+0.98
May 27	May 28	B	B	−0.007	+0.08	29	−0.020	+0.01	11	+0.010	+0.29	3	+0.047	+0.01
June 9	June 10	B	C	+0.052	+1.17	14	+0.064	+1.01	3	+0 037	+1.91	1	+0.070	+1.07
June 9	June 2	B	B	+0.055	−0.10	12	+0.055	−0.15	2	+0.055	+0.35	1	+0.060	−0.35
June 2	June 10	B	C	−0.011	+1.43	12	−0.015	+1.39	2	+0.005	+1.68	1	+0.010	+1.42
June 24	June 28	B C′	B	−0.008	−1.27	12	+0.020	−1.18	11	−0.043	−1.34	2	+0.020	−1.51
June 24	June 18	B C′	B	+0.095	−1.74	4	+0.138	−1.66	2	+0.045	−2.16	2	+0.060	−1.48
June 18	June 28	B	B	−0.074	+0.02	3	−0.080	+0.11	2	−0.100	−0.07	2	−0.040	−0.03
June 30	July 1	B	B H	+0.068	+0.29	22	+0.065	+0.26	6	+0.110	+0.64	2	−0.030	−0.40
July 6	July 13	B H	B	−0.072	−0.10	10	−0.063	−0.17	3	−0.070	−0.13	–	—	—
July 18	July 21	A	D	+0.012	+0.55	16	+0.023	+0.57	9	+0.001	+0.54	–	—	—
July 18	July 14	A	C C′	+0.015	−0.07	11	+0.024	−0.15	6	−0.005	0.00	–	—	—
July 14	July 21	C C′	D	+0.017	+0.55	11	+0.030	+0.65	6	+0.020	+0.49	–	—	—
July 22	July 23	B	D	−0.040	+0.39	37	−0.033	+0.50	14	−0.056	−0.02	5	−0.048	+0.69
July 27	July 28	B	A	—	—	–	—	—	–	—	—	–	—	—
July 30	Aug. 2	A	B	+0.026	−0.09	22	+0.045	−0.05	10	−0.001	−0.21	2	−0.050	−0.02
Aug. 10	Aug. 22	C B	B	−0.054	−0.27	11	−0.053	−0.48	2	−0.060	+0.89	–	—	—
Aug. 10	Aug. 6	C B	D	−0.058	+0.54	8	−0.060	+0.08	–	—	—	–	—	—
Aug. 6	Aug. 22	D	B	+0.044	−0.55	7	+0.044	−0.40	1	−0.060	−1.57	–	—	—
Aug. 23	Aug. 24	C	D	−0.025	+0.31	24	−0.040	+0.55	9	+0.011	+0.07	5	−0.020	−0.41
Aug. 23	Aug. 26	C	B	−0.104	+0.02	25	−0.114	+0.14	9	−0.067	−0.03	5	−0.116	−0.52
Aug. 24	Aug. 26	D	B	−0.072	−0.33	25	−0.060	−0.41	10	−0.091	−0.24	5	−0.096	−0.11
Aug. 27	Aug. 31	B	C H	+0.010	−0.40	23	+0.024	−0.22	9	+0.008	−1.23	3	−0.087	+0.37
Sept. 1	Sept. 2	A	B	+0.073	+0.20	27	+0.080	+0.11	16	+0.052	+0.33	2	+0.135	+0.36
Sept. 7	Sept. 9	A	B	−0.050	+0.63	24	−0.056	+0.56	16	−0.048	+0.88	4	−0.015	+0.06
Sept. 12	Sept. 14	D	D	+0.021	−0.80	33	+0.032	−0.83	5	−0.016	−0.55	6	−0.012	−0.82
Oct. 4	Oct. 6	D	B C′	−0.029	−0.43	11	−0.020	−0.53	3	−0.060	−0.24	3	−0.030	−0.24
Oct. 6	Oct. 10	B C′	D	−0.006	−0.26	11	−0.020	−0.13	3	+0.050	−0.27	3	−0.010	−0.69
Oct. 12	Oct. 11	C	A	+0.003	+0.50	39	−0.003	+0.38	11	+0.027	+0.92	7	+0.003	+0.48
Oct. 15	Oct. 19	A	A	−0.092	+0.05	40	−0.087	+0.90	11	−0.134	−0.19	8	−0.054	+0.24
Oct. 20	Oct. 21	A	C A	−0.003	+0.18	37	−0.015	+0.42	16	+0.025	−0.44	2	−0.010	+0.06
Oct. 22	Oct. 26	A D	A	+0.063	+0.04	32	+0.061	+0.11	14	+0.051	+0.19	8	+0.094	−0.48
Nov. 4	Nov. 10	B H	B	+0.057	−0.02	18	+0.071	−0.07	3	−0.030	+0.29	–	—	—

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_o$	$\Delta\delta_o$	$9^m.5 \cdot\cdot 8^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$8^m.5 \cdot\cdot 7^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$7^m.5 \cdot\cdot 6^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$
(1874)														
Nov. 7	Nov. 10	B	A	−0.031	−0.45	44	−0.022	−0.41	10	−0.058	−0.78	3	−0.067	+0.06
Nov. 9	Nov. 11	A	A	+0.049	+1.35	24	+0.053	+1.33	10	+0.034	+1.32	4	+0.065	+1.52
Nov. 16	Nov. 18	B	A	−0.040	+0.53	37	−0.036	+0.46	16	−0.054	+0.75	2	0.000	+0.06
Nov. 18	Nov. 21	A	B A	+0.034	−0.15	31	+0.042	−0.05	15	+0.018	−0.25	3	+0.040	−0.61
Nov. 24	Nov. 26	A B	C	−0.018	+0.61	32	−0.018	+0.54	12	−0.034	+0.86	4	+0.030	+0.39
Dec. 2	Dec. 3	A	B	−0.065	+0.31	18	−0.048	+0.35	3	−0.163	+0.10	—	—	—
Dec. 2	Dec. 10	A	B	+0.067	+0.18	16	+0.066	+0.28	9	+0.073	+0.10	1	+0.010	−0.52
Dec. 12	Dec. 16	D	A H	+0.090	−1.15	31	+0.083	−1.21	7	+0.081	−0.77	2	+0.210	−1.79
1875														
Jan. 10	Jan. 11	B	C	−0.043	−1.81	11	−0.032	−1.62	2	−0.090	−2.12	1	−0.070	−3.35
Jan. 14	Jan. 16	B	B	+0.008	+0.02	9	+0.020	+0.08	3	−0.030	+0.11	5	+0.010	−0.12
Jan. 20	Jan. 25	C	B	−0.090	−0.10	8	−0.060	+0.13	4	−0.155	−0.70	—	—	—
Jan. 25	Jan. 26	B	A	−0.051	+1.12	15	−0.053	+1.14	7	−0.044	+0.74	4	−0.055	+1.73
Jan. 27	Jan. 30	A	A	+0.036	−0.85	18	+0.063	−1.10	6	+0.032	−0.90	7	−0.031	−0.31
Feb. 1	Feb. 13	D	D	+0.071	−0.19	24	+0.075	−0.07	5	+0.042	−0.41	3	+0.090	−0.77
Feb. 15	Feb. 18	D	C B	+0.146	+0.55	8	+0.148	+0.56	—	—	—	1	+0.130	+0.45
Feb. 18	Feb. 28	C B	D	−0.074	+0.40	27	−0.098	+0.43	3	−0.017	−0.33	3	+0.087	+0.84
Feb. 22	Feb. 24	B	A	−0.085	+0.33	18	−0.075	+0.28	4	−0.112	+0.52	1	−0.160	+0.38
Mar. 4	Mar. 17	C C′	B	−0.070	+0.19	18	−0.061	+0.03	8	−0.091	+0.55	—	—	—
Mar. 8	Mar. 11	A	B	−0.079	+0.39	29	−0.073	+0.35	8	−0.100	+0.41	2	−0.095	+1.00
Mar. 17	Mar. 18	B	B	+0.027	+0.43	23	+0.018	+0.60	8	+0.055	−0.03	—	—	—
Mar. 23	Mar. 25	C	A	−0.084	−0.09	31	−0.087	−0.02	12	−0.074	−0.14	4	−0.090	−0.50
Mar. 27	Mar. 28	A	C	−0.031	+0.84	33	−0.053	+0.69	12	+0.006	+1.08	4	+0.042	+1.30
Mar. 29	Mar. 30	A	B	−0.038	−0.20	28	−0.045	−0.18	9	−0.030	−0.21	3	+0.007	−0.27
Mar. 31	Apr. 5	B	A	−0.003	−0.37	15	−0.005	−0.33	1	+0.040	−1.55	5	−0.004	−0.26
Apr. 10	Apr. 14	C	D	+0.048	+0.31	21	+0.040	+0.23	7	+0.071	+0.26	4	+0.040	+0.79
Apr. 15	Apr. 20	A	A	+0.025	+0.33	17	+0.003	+0.40	5	+0.032	+0.07	1	−0.080	+0.43
Apr. 21	Apr. 22	A	A	0.000	−0.01	19	+0.012	+0.41	13	−0.022	−0.49	2	+0.035	−1.18
Apr. 24	Apr. 25	B	A	−0.002	+0.09	37	−0.032	+0.11	9	−0.007	+0.13	5	+0.044	−0.15
Apr. 27	May 3	A	A	−0.029	−0.71	31	−0.034	−0.87	10	−0.008	−0.79	8	−0.035	−0.01
May 4	May 5	B C′	B C H	+0.034	−0.31	10	+0.043	−0.31	2	+0.005	−0.05	4	+0.028	−0.42
May 5	May 13	B C H	A H	−0.003	−0.01	14	−0.041	−0.21	—	—	—	4	0.000	+0.04
May 17	May 22	B	B	−0.110	−0.08	23	−0.117	+0.01	5	−0.084	−0.87	1	−0.070	−0.71
May 23	May 26	B	A	−0.016	−0.20	26	−0.013	−0.15	8	−0.040	−0.54	3	+0.017	+0.33
June 14	June 15	A	A	−0.090	+0.03	7	−0.140	+0.27	8	−0.084	−0.18	5	−0.036	+0.02
June 20	June 21	B	B	−0.022	−0.09	17	−0.023	−0.01	4	−0.015	−0.02	4	−0.025	−0.48
June 24	June 28	A	B	−0.089	+0.37	8	−0.081	+0.01	5	−0.098	+0.95	1	−0.100	+0.30
Aug. 7	Aug. 9	A	B	+0.025	−0.14	16	+0.047	−0.05	6	−0.032	−0.24	1	+0.020	−1.12
Aug. 10	Aug. 25	B	D	−0.040	−0.18	21	−0.034	−0.01	3	−0.070	−1.21	2	−0.040	−0.38
Aug. 25	Aug. 26	D	D	−0.060	+0.50	19	−0.052	+0.24	3	−0.100	+1.69	2	−0.030	+1.15
Aug. 28	Aug. 29	B	B H	−0.073	−0.39	24	−0.112	−0.69	7	+0.059	+0.04	4	−0.062	+0.65
Aug. 30	Aug. 31	C B	B	+0.028	+0.68	26	+0.057	+0.73	6	−0.062	+0.58	4	−0.028	+0.45
Sept. 1	Sept. 4	B	A	−0.017	−0.41	27	−0.011	−0.58	8	−0.029	+0.05	3	−0.043	+0.01
Sept. 5	Sept. 7	C	C D	+0.034	−0.27	24	+0.026	−0.40	8	+0.080	−0.06	3	−0.023	+0.24
Sept. 8	Sept. 14	B	D	+0.040	+0.36	18	+0.050	+0.29	5	+0.004	+0.66	3	+0.033	+0.25
Oct. 13	Oct. 14	C H	C C′ H	+0.050	−0.81	17	+0.064	−0.82	3	−0.027	−0.78	—	—	—
Oct. 13	Oct. 17	C H	D	−0.042	−0.70	7	−0.016	−0.53	2	−0.145	−0.92	1	−0.020	−1.40
Oct. 14	Oct. 17	B	D	−0.050	0.00	30	−0.045	+0.48	8	−0.072	+0.01	2	−0.030	−0.80
Oct. 18	Oct. 19	B	D	−0.015	+1.19	27	−0.034	+1.39	11	+0.004	+1.00	8	+0.025	+0.78
Oct. 20	Oct. 25	B	A	−0.014	−0.30	20	−0.004	−0.47	11	−0.022	−0.16	6	−0.050	+0.02
Oct. 27	Nov. 6	B C′	B	+0.064	+0.09	33	+0.083	+0.04	12	+0.017	+0.19	4	+0.050	+0.29
Nov. 8	Nov. 11	D	A	+0.110	+0.20	19	+0.103	+0.20	1	+0.240	+0.36	—	—	—
Nov. 11	Nov. 17	A	A	−0.096	+0.52	32	−0.092	+0.51	9	−0.113	+0.67	2	−0.095	−0.12
Nov. 20	Nov. 22	A	D	+0.103	+0.42	9	+0.079	+0.54	5	+0.120	+0.37	1	+0.230	−0.33
Nov. 24	Dec. 6	B	A C′	−0.014	+0.25	9	+0.010	+0.30	7	−0.046	+0.17	—	—	—
Dec. 6	Dec. 13	A C′	A	−0.070	−0.29	23	−0.067	−0.36	6	−0.070	−0.12	2	−0.090	−0.02
Dec. 6	Dec. 14	A C′	D	+0.006	+0.15	21	+0.006	+0.06	8	−0.018	+0.48	1	+0.210	−0.55

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_0$	$\Delta\delta_0$	$9^m.5 \cdot\cdot 8^m.5$ No. Stars	$9^m.5 \cdot\cdot 8^m.5$ $\Delta\alpha$	$9^m.5 \cdot\cdot 8^m.5$ $\Delta\delta$	$8^m.5 \cdot\cdot 7^m.5$ No. Stars	$8^m.5 \cdot\cdot 7^m.5$ $\Delta\alpha$	$8^m.5 \cdot\cdot 7^m.5$ $\Delta\delta$	$7^m.5 \cdot\cdot 6^m.5$ No. Stars	$7^m.5 \cdot\cdot 6^m.5$ $\Delta\alpha$	$7^m.5 \cdot\cdot 6^m.5$ $\Delta\delta$
1876														
Jan. 10	Jan. 11	A	B C	−0.064	−0.37	29	−0.081	−0.29	11	−0.028	−0.59	1	+0.010	−0.18
Jan. 12	Jan. 13	B H	D	+0.120	+1.66	8	+0.126	+1.60	1	+0.070	+2.15	—	—	—
Jan. 12	Jan. 20	B H	B	+0.084	+0.54	14	+0.074	+0.73	6	+0.090	−0.05	1	+0.200	+1.43
Jan. 13	Jan. 20	D	B	−0.042	−1.32	6	−0.042	−1.13	3	−0.043	−1.70	—	—	—
Jan. 26	Jan. 31	C	B	+0.044	−0.77	15	+0.032	−0.77	6	+0.050	−0.86	3	+0.093	−0.55
Feb. 17	Feb. 20	A	B	−0.009	−0.55	7	−0.040	−0.50	5	+0.006	−0.45	1	+0.130	−1.26
Feb. 20	Feb. 21	B	B	−0.110	+0.22	4	−0.100	−0.19	7	−0.126	+0.46	1	−0.040	+0.17
Feb. 21	Feb. 22	B	C H	0.000	−0.72	6	0.000	−0.82	2	+0.050	−0.48	1	−0.100	−0.61
Mar. 6	Mar. 7	A	A	−0.056	+0.14	15	−0.063	0.00	2	−0.080	+1.26	1	+0.100	+0.07
Mar. 13	Mar. 14	A	A	+0.033	+0.01	13	+0.030	0.00	5	+0.040	+0.03	—	—	—
Mar. 19	Apr. 2	A	A	+0.073	+0.57	4	+0.142	+0.46	5	+0.032	+0.68	1	0.000	—
Apr. 10	Apr. 11	B	B	−0.035	+0.03	3	−0.053	−0.43	—	—	—	1	+0.020	+1.41
May 23	May 24	C	B	+0.021	−0.40	8	+0.040	−0.78	4	−0.020	+0.49	—	—	—
May 25	May 30	A	D	+0.050	+0.75	9	+0.050	+1.10	5	+0.018	+0.39	2	+0.125	+0.04
Aug. 6	Aug. 8	B	B	−0.122	+0.01	4	−0.165	+0.20	5	−0.088	−0.14	—	—	—
Aug. 9	Aug. 10	D	B	+0.038	+0.12	6	+0.043	+0.30	2	+0.020	−0.39	—	—	—
Aug. 12	Aug. 13	A	B	−0.042	+0.30	7	−0.037	+0.10	2	−0.060	+0.97	—	—	—
Aug. 21	Aug. 23	D	B	+0.042	+0.11	7	+0.041	+0.31	3	+0.070	−0.60	2	+0.005	+0.48
Aug. 26	Aug. 28	B	D	+0.092	0.00	12	+0.084	+0.04	5	+0.090	−0.25	2	+0.140	+0.31
Aug. 29	Aug. 30	D	C H	+0.100	−0.90	12	+0.091	−0.91	1	+0.160	—	1	+0.150	−0.77
Oct. 2	Oct. 3	C B	A	−0.024	−0.09	29	−0.016	−0.19	11	−0.052	+0.18	3	−0.003	+0.03
Oct. 10	Oct. 12	B	C B	−0.062	−0.43	27	−0.053	−0.26	8	−0.105	−0.67	7	−0.047	−0.79
Oct. 15	Oct. 16	B	B	+0.034	−0.09	7	+0.030	−0.18	1	+0.090	−0.01	3	+0.030	+0.07
Oct. 15	Oct. 17	B	B H	+0.043	+0.02	11	+0.059	+0.09	3	+0.010	−0.13	2	+0.005	−0.14
Oct. 18	Oct. 19	C D	D	+0.065	−0.42	24	+0.070	−0.41	8	+0.050	−0.68	6	+0.070	−0.13
Oct. 24	Oct. 25	B C	C D	−0.017	+0.65	15	−0.037	+0.60	7	−0.020	+0.89	2	+0.140	+0.16
Oct. 29	Oct. 30	B	B C	+0.006	−0.69	21	+0.010	−0.75	5	+0.016	−0.16	3	−0.040	−1.09
Nov. 4	Nov. 5	A	D	+0.032	+0.22	20	+0.040	+0.26	8	+0.004	+0.09	2	+0.065	+0.29
Nov. 12	Nov. 13	A C′	B	−0.058	+0.30	17	−0.028	+0.24	11	−0.106	+0.19	4	−0.050	+0.92
Dec. 5	Dec. 19	D	D C	+0.017	−1.58	31	+0.016	−1.74	4	−0.042	−1 52	4	+0.090	−0.34
Dec. 6	Dec. 23	A	A	+0.049	−0.55	16	+0.052	−0.53	5	+0.046	−0.91	2	+0.035	+0.22
Dec. 24	Dec. 27	C B	B	−0.024	−0.85	14	−0.026	−1.22	6	+0.002	−0.16	2	−0.080	−0.30
1877														
Jan. 13	Jan. 14	C B	D	−0.049	+0.18	14	−0.054	+0.21	5	−0.058	+0.12	2	+0.005	+0.06
Jan. 20	Jan. 23	C C′	C D	−0.012	+0.47	11	−0.011	+0.54	1	+0.090	−0.49	1	−0.130	+0.70
Jan. 20	Jan. 30	C C′	C D	−0.056	−0.90	11	−0.058	−0.83	1	−0.050	−1.15	1	−0.040	−1.35
Jan. 23	Jan. 30	C D	C D	−0.042	−1.13	18	−0.050	−1.08	3	−0.097	−0.67	2	+0.090	−2.32
Feb. 1	Feb. 3	B	C	−0.048	+0.23	14	−0.056	+0.20	—	—	—	2	+0.015	+0.49
Feb. 3	Feb. 4	B C	B	+0.042	−0.24	14	+0.031	−0.16	5	+0.058	−0.28	2	+0.075	−0.74
Feb. 6	Feb. 8	A	D	−0.038	+0.45	8	−0.031	+0.68	5	−0.060	+0.19	3	−0.020	+0.28
Feb. 6	Feb. 11	A	B	+0.022	−0.01	17	+0.024	−0.12	8	+0.010	+0.16	5	+0.034	+0.10
Feb. 8	Feb. 11	D	B	+0.042	−0.36	10	+0.050	−0.62	4	+0.045	+0.28	2	−0.005	−0.32
Feb. 14	Feb. 19	A	D C′	−0.070	+0.45	2	−0.060	+0.54	1	−0.090	+0.29	—	—	—
Feb. 14	Feb. 20	A	A	−0.045	+0.28	14	−0.046	+0.53	7	−0.047	+0.15	3	−0.037	−0.60
Feb. 19	Feb. 20	D C′	A	+0.047	+0.20	4	+0.042	+0.29	1	+0.040	+0.48	1	+0.070	−0.45
Feb. 21	Feb. 27	A	B	+0.027	+0.84	7	−0.013	+0.83	6	+0.043	+0.85	—	—	—
Feb. 28	Mar. 1	A	B	−0.072	+0.26	21	−0.061	+0.17	6	−0.130	+0.88	2	−0.005	−0.60
Mar. 4	Mar. 6	A	C	−0.045	−0.07	10	−0.048	−0.20	3	−0.033	+0.28	1	−0.050	+0.17
Mar. 15	Mar. 20	C	D	+0.046	+0.34	14	+0.046	+0.19	2	+0.040	+1.38	—	—	—
Apr. 12	Apr. 15	B	A	−0.081	−0.13	7	−0.077	−0.24	2	−0.080	+0.09	1	−0.110	+0.21
Apr. 16	Apr. 22	A	B	−0.089	−0.02	5	−0.134	−0.15	2	+0.015	−0.24	1	−0.070	+1.04
Apr. 16	Apr. 23	A	A	+0.017	−0.16	7	+0.039	−0.31	13	−0.053	−0.12	1	+0.080	+0.77
Apr. 22	Apr. 23	B	A	+0.098	−0.11	6	+0.123	−0.16	2	−0.005	+0.14	1	+0.150	−0.27
Apr. 26	May 3	A	B	−0.027	−0.44	14	−0.031	−0.55	4	−0.012	+0.04	—	—	—
May 5	May 6	B	D	+0.079	+0.09	7	+0.091	+0.04	1	0.000	−1.01	1	+0.070	+1.55
May 5	May 12	B	A	+0.050	+0.08	5	+0.060	+0.17	1	+0.080	+0.26	3	+0.023	−0.13
May 6	May 12	D	A	+0.042	−0.02	3	+0.023	+0.32	1	+0.070	−0.01	1	+0.070	−1.04
May 13	May 16	B H	B H	−0.046	−0.76	13	−0.046	−0.78	1	+0.020	+0.03	1	−0.110	−1.20

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_o$	$\Delta\delta_o$	$9^m.5 \cdot\cdot 8^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$8^m.5 \cdot\cdot 7^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$7^m.5 \cdot\cdot 6^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$
(1877)														
May 28	May 29	A	A	+0.019	+0.47	12	+0.018	+0.51	2	+0.040	+0.68	2	+0.005	+0.06
May 30	June 2	B H	B H	+0.101	−0.69	16	+0.102	−0.70	1	+0.070	−0.64	–	—	—
June 14	June 17	C C′	A	−0.040	−0.48	8	−0.045	−0.50	2	+0.010	−0.16	2	−0.070	−0.72
June 18	June 19	A	A	−0.013	+0.32	10	+0.006	+0.51	–	—	—	2	−0.110	−0.66
July 24	July 25	A B H	D	+0.013	−1.42	7	+0.020	−1.51	2	−0.005	−1.08	–	—	—
Aug. 6	Aug. 11	B	A	+0.026	+0.44	5	+0.008	+0.55	5	+0.060	+0.32	1	−0.050	+0 53
Aug. 16	Aug. 22	B C H	C D	−0.007	+0.18	24	−0.018	+0.27	8	−0.014	−0.40	2	+0.150	0.00
Aug. 22	Aug. 27	C D	A	+0.109	−0.38	13	+0.105	−0.24	4	+0.110	−0.64	2	+0.140	−0.74
Aug. 27	Aug. 28	A	A	+0.043	−0.32	14	+0.078	−0.29	13	+0.003	−0.21	1	+0.070	−2.10
Aug. 28	Aug. 30	A	D	−0.028	+0.16	17	−0.036	+0.14	9	−0.012	+0.38	1	−0.020	−1.49
Aug. 30	Sept. 11	D	B	−0.001	−0.90	26	+0.002	−0.95	5	−0.062	−0.60	6	+0.040	−0.93
Sept. 12	Sept. 13	A	A	+0.009	−0.05	40	−0.001	+0.15	16	+0.021	−0.33	7	+0.036	−0.49
Sept. 15	Sept. 16	B	A C′	+0.076	+0.18	23	+0.085	+0.24	8	+0.056	+0.08	3	+0.060	0.00
Sept. 16	Sept. 22	A	C D	+0.002	+0.87	14	−0.011	+0.72	9	+0.012	+1.20	2	+0.050	+0.39
Sept. 18	Sept. 19	D	C B	−0.030	−0.11	23	−0.007	−0.17	6	−0.073	+0.02	4	−0.098	+0.82
Sept. 22	Sept. 23	A	A	+0.044	−1.05	25	+0.061	−0.99	7	+0.039	−1.30	4	−0.050	−0.97
Sept. 23	Sept. 25	A	A	−0.072	−0.65	20	−0.051	−0.58	4	−0.122	−0.99	3	−0.143	−0.71
Sept. 24	Sept. 25	A	A	−0.056	−0.46	18	−0.056	−0.46	12	−0.051	−0.48	4	−0.075	−0.39
Sept. 26	Sept. 27	A	C	−0.016	−0.21	26	−0.044	−0.34	13	+0.020	+0.04	2	+0.120	−0.20
Sept. 30	Oct. 1	A	A	+0.010	+0.73	23	+0.027	+0.68	13	−0.011	+0.81	12	−0.001	+0.73
Oct. 6	Oct. 7	C D	C D	−0.044	−0.63	33	−0.013	−0.71	13	−0.120	−0.29	5	−0.054	−0.98
Oct. 13	Oct. 17	D	B D	+0.003	−0.06	27	0.000	+0.09	9	+0.011	−0.50		—	—
Oct. 18	Oct. 23	C D C′	A	+0.059	+0.34	15	+0.041	+0.34	12	+0.076	+0.32	1	+0.130	+0.67
Oct. 27	Oct. 28	C D	B D	+0.031	−0.63	27	+0.040	−0.69	6	−0.022	−0.62	2	+0.065	+0.10
Oct. 30	Oct. 29	C	D	−0.078	−0.06	8	−0.062	−0.01	1	−0.260	−0.95	1	−0.020	+0.43
Oct. 29	Nov. 4	D	C D	−0.095	−0.24	9	−0.082	−0.08	3	−0.147	−0.66	1	−0.050	−0.34
Oct. 30	Nov. 4	C	C D	−0.107	0.00	40	−0.121	+0.06	14	−0.069	−0.19	2	−0.075	+0.08
Nov. 3	Nov. 13	B	C	−0.096	+0.59	23	−0.080	+0.43	11	−0.125	+0.79	2	−0.110	+1.18
Nov. 6	Nov. 13	B	C B	+0.087	+0.30	30	+0.100	+0.35	3	+0.010	−0.40	6	+0.060	+0.42
Nov. 6	Nov. 7	B	B C	+0.024	+1.09	17	+0.030	+0.96	6	+0.008	+1.48		—	—
Nov. 13	Nov. 14	C B	C C′	+0.023	−0.97	46	+0.006	−0.89	17	+0.061	−1.29	10	+0.035	−0.79
Nov. 28	Dec. 8	C C′	A	+0.012	+0.36	13	+0.010	+0.19	4	+0.035	+0.78	1	−0.050	+0.76
Dec. 1	Dec. 2	C B	D C	+0.016	+0.64	49	+0.025	+0.39	22	−0.005	+0.22	8	+0.018	−0.20
Dec. 1	Dec. 13	C B	C B	+0.158	−0.08	18	+0.177	−0.13	5	+0.088	−0.06	1	+0.160	+0.61
Dec. 3	Dec. 9	A	B	−0.033	+0.18	44	−0.034	+0.20	10	−0.035	+0.16	3	−0.023	−0.06
Dec. 9	Dec. 12	B	B	−0.044	+0.71	25	−0.050	+0.67	7	−0.060	+0.78	4	+0.012	+0.89
Dec. 12	Dec. 13	B	A	+0.020	−0.40	36	+0.042	−0.56	11	−0.026	−0.17	6	−0.027	+0.13
Dec. 15	Dec. 16	C H	D	+0.020	−0.22	18	+0.039	−0.22	8	−0.028	−0.18	6	+0.025	−0.30
Dec. 16	Dec. 17	D	A	+0.103	−1.30	26	+0.103	−1.23	3	+0.037	−1.67	3	+0.170	−1.48
Dec. 17	Dec. 18	A	D	−0.142	+0.56	19	−0.131	+0.37	6	−0.178	+1.13	–	—	—
Dec. 20	Dec. 25	B	C	−0.005	−0.93	50	−0.008	−1.00	7	−0.021	−0.44	4	+0.058	−0.91
Dec. 26	Dec. 27	B	B C	+0.040	−1.03	36	+0.049	−1.11	15	+0.021	−0.90	6	+0.035	−0.92
1878														
Jan. 5	Jan. 7	B	D	−0.042	−0.96	15	−0.050	+0.98	2	−0.005	+1.21	1	+0.010	+0.16
Jan. 16	Jan. 19	B	A	−0.086	+0.65	7	−0.089	+0.46	5	−0.068	+0.98	3	−0.110	+0.55
Jan. 22	Jan. 28	B	B	−0.140	−0.32	6	−0.145	−0.14	3	−0.087	−0.40	1	−0.270	−1.16
Jan. 30	Feb. 2	D	C	+0.051	−0.79	8	+0.090	−1.08	9	+0.024	−0.41	2	+0.010	−1.33
Feb. 3	Feb. 4	A	B	+0.011	+0.48	25	+0.021	+0.27	10	−0.013	+0.68	6	+0.008	+0.86
Feb. 5	Feb. 6	B	A	−0.082	+0.56	7	−0.014	+0.57	4	−0.100	+0.56	5	−0.162	+0.53
Feb. 7	Feb. 11	B	C	+0.043	+0.33	6	+0.022	−0.05	1	+0.010	+0.29	2	+0.125	+1.50
Feb. 13	Feb. 14	B	B	+0.037	+1.41	4	+0.068	+1.26	2	−0.025	+1.70	–	—	—
Feb. 13	Feb. 16	B	B H	−0.132	+1.36	3	−0.143	+0.95	2	−0.115	+2.60	–	—	—
Feb. 14	Feb. 16	B	B H	−0.180	+0.05	4	−0.195	−0.33	2	−0.255	+0.41	1	+0.030	+0.82
Feb. 18	Feb. 19	D	B	+0.100	+0.32	18	+0.110	+0.67	4	+0.078	−0.64	1	+0.030	−2.08
Feb. 24	Feb. 26	A	A	−0.055	−0.31	7	−0.063	−0.54	2	−0.055	+0.06	1	0.000	+0.55
Feb. 27	Feb. 28	A	A H	+0.060	−0.06	10	+0.051	−0.13	–	—	—	3	+0.083	+0.16
Mar. 4	Mar. 5	B	B	+0.004	−0.58	3	+0.013	−0.50	2	−0.010	−0.70	–	—	—
Mar. 5	Mar. 6	B	B	+0.039	+0.46	7	+0.039	+0.46	–	—	—	–	–	—

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_0$	$\Delta\delta_0$	$9^m.5 - 8^m.5$ No. Stars	$9^m.5 - 8^m.5$ $\Delta\alpha$	$9^m.5 - 8^m.5$ $\Delta\delta$	$8^m.5 - 7^m.5$ No. Stars	$8^m.5 - 7^m.5$ $\Delta\alpha$	$8^m.5 - 7^m.5$ $\Delta\delta$	$7^m.5 - 6^m.5$ No. Stars	$7^m.5 - 6^m.5$ $\Delta\alpha$	$7^m.5 - 6^m.5$ $\Delta\delta$
(1878)														
Mar. 16	Mar. 19	B	A	+0.100	+0.04	5	+0.076	+0.17	2	+0.155	−0.29	—	—	—
Mar. 20	Mar. 26	A	B	+0.067	+0.04	3	+0.067	+0.04	—	—	—	—	—	—
Mar. 30	Mar. 31	B	C	−0.048	−0.17	8	−0.056	−0.07	2	−0.015	−0.55	—	—	—
Apr. 18	May 2	B	A	+0.027	+0.60	11	−0.003	+0.95	1	+0.160	+0.39	4	+0.078	+0.30
May 4	May 6	H	B	+0.040	+2.12	2	+0.040	+2.12	—	—	—	—	—	—
May 2	May 6	A	B	+0.009	−0.12	14	+0.012	−0.20	—	—	—	1	−0.040	+1.03
May 7	May 8	B	D	+0.080	+0.13	7	+0.064	+0.16	—	—	—	1	+0.180	+0.72
June 3	June 5	C	A	+0.102	−0.34	5	+0.102	−0.34	—	—	—	—	—	—
June 6	June 9	B	A	−0.004	+0.70	5	−0.028	+1.17	2	+0.065	−0.40	1	−0.020	+0.48
June 19	June 20	B C	A	−0.012	+0.52	2	+0.055	+1.30	2	−0.080	−0.27	—	—	—
June 26	July 1	B	B	−0.053	−0.22	4	−0.070	−0.85	1	−0.020	+1.63	2	−0.040	+0.11
July 10	July 13	B	C	−0.075	−0.49	2	−0.075	−0.49	—	—	—	—	—	—
July 24	July 31	B	B	+0.076	−0.91	4	+0.110	−1.02	1	−0.060	−0.47	—	—	—
Aug. 14	Aug. 20	B	B	+0.010	+0.60	5	+0.012	+0.61	1	0.000	+0.54	—	—	—
Sept. 2	Sept. 9	B	C	+0.104	+0.49	4	+0.142	+0.46	4	+0.065	+0.51	—	—	—
Sept. 12	Sept. 14	A	B	−0.060	+0.18	6	−0.022	+0.20	3	−0.133	+0.17	—	—	—
Sept. 15	Sept. 16	C	C	+0.110	−0.66	4	+0.085	−0.56	3	+0.150	−0.86	—	—	—
Sept. 17	Sept. 18	B H	A	+0.055	−0.45	5	+0.074	+0.38	3	+0.023	−1.82	—	—	—
Sept. 19	Sept. 22	B	B	−0.150	+0.23	2	−0.150	+0.23	—	—	—	—	—	—
Sept. 23	Sept. 25	D	B	+0.160	+0.14	3	+0.157	−0.28	4	+0.118	+0.92	2	+0.230	−0.42
Sept. 28	Sept. 30	D	C	+0.015	+0.39	3	+0.057	+0.23	—	—	—	1	+0.110	+0.89
Oct. 1	Oct. 2	B	A	−0.080	+0.48	7	−0.076	+0.53	—	—	—	2	−0.080	+0.30
Oct. 3	Oct. 10	A	B	+0.070	+0.40	8	+0.074	+0.72	4	+0.050	−0.23	—	—	—
Oct. 14	Oct. 15	A	A	+0.026	−0.26	5	+0.058	−0.58	4	−0.002	−0.61	1	−0.020	−0.16
Oct. 16	Oct. 29	A	B	+0.044	+0.90	6	+0.038	+0.88	2	+0.055	+1.58	1	+0.070	−0.38
Nov. 2	Nov. 3	A	B	−0.060	+0.51	1	−0.040	−0.02	1	−0.080	+1.04	—	—	—
Nov. 4	Nov. 5	A	B	−0.240	+0.61	2	−0.240	+0.61	—	—	—	—	—	—
Nov. 6	Nov. 12	B	A	−0.047	+0.10	1	0.000	−0.07	1	−0.020	+0.34	1	−0.120	+0.03
Nov. 13	Nov. 23	A	A	+0.006	−0.18	3	−0.030	−1.05	4	+0.060	+0.53	1	−0.100	−0.41
Nov. 24	Nov. 26	A	C	+0.021	+0.21	17	−0.002	+0.14	8	+0.054	+0.30	1	+0.150	+0.66
Nov. 30	Dec. 1	B	D	−0.011	+0.35	12	+0.015	+0.45	5	−0.128	+0.11	1	+0.270	—
Dec. 7	Dec. 8	B	B	−0.103	−0.20	10	−0.092	−0.55	1	−0.150	+0.45	2	−0.135	+1.32
Dec. 12	Dec. 16	B	C	−0.120	+0.27	2	−0.120	+0.27	—	—	—	—	—	—
Dec. 14	Dec. 16	B	C	−0.072	+0.30	3	−0.010	+0.19	2	−0.165	+0.45	—	—	—
Dec. 12	Dec. 14	B	B	−0.003	+1.28	2	−0.040	+1.42	1	+0.070	+1.00	—	—	—
Dec. 17	Dec. 18	D C	B	+0.040	+2.51	2	+0.040	+2.51	—	—	—	—	—	—
Dec. 18	Dec. 19	B	C	−0.145	+0.18	4	−0.145	+0.18	—	—	—	—	—	—
Dec. 23	Dec. 25	B	C	+0.050	−0.38	2	+0.065	−0.12	5	+0.038	−0.48	—	—	—
Dec. 23	Dec. 26	B	B	−0.009	+0.12	14	−0.013	+0.02	1	−0.050	+0.95	1	+0.080	+0.66
1879														
Jan. 20	Jan. 23	D	A	+0.186	−0.37	4	+0.215	−0.53	1	+0.070	+0.27	—	—	—
Jan. 20	Jan. 22	D	D	+0.295	−0.40	2	+0.295	−0.40	—	—	—	—	—	—
1883														
Oct. 9	Oct. 10	B	B	−0.106	+1.54	10	−0.144	+1.71	8	−0.058	+1.48	3	−0.110	+1.13
Oct. 16	Oct. 17	D	B	−0.088	+0.96	9	−0.140	+0.86	4	−0.018	+1.96	4	−0.048	−0.06
Oct. 15	Oct. 16	C	D	−0.027	−0.05	21	−0.035	−0.74	6	−0.042	−0.66	3	+0.057	+1.39
Oct. 18	Oct. 22	B	D	−0.006	+0.18	13	−0.045	+0.17	5	+0.040	+0.62	3	+0.090	+0.26
Oct. 30	Nov. 1	B	B	−0.054	+0.05	43	−0.053	+0.06	11	−0.040	+0.04	2	−0.160	−0.14
Nov. 5	Nov. 6	A	A	+0.067	−0.02	32	+0.076	−0.18	7	+0.014	+0.91	3	+0.087	−0.53
Nov. 7	Nov. 8	C B	D	−0.070	−1.01	9	−0.052	−1.20	3	−0.123	−0.37	—	—	—
Nov. 12	Nov. 14	B	A	+0.064	−0.15	34	+0.070	+0.16	9	+0.046	−0.13	—	—	—
Nov. 21	Nov. 22	B	B	−0.028	−0.16	1	0.000	+1.05	3	−0.037	−0.56	—	—	—
Nov. 27	Nov. 28	B	B	+0.130	+0.36	38	+0.128	+0.39	14	+0.131	+0.33	1	+0.190	−0.12
Dec. 3	Dec. 4	B	B	+0.084	−1.17	20	+0.085	−1.02	6	+0.078	−1.65	—	—	—
Dec. 6	Dec. 10	C B	B	−0.132	−1.32	19	−0.123	−1.66	12	−0.157	−0.91	2	−0.075	−0.42
Dec. 11	Dec. 13	C B	A	−0.067	+1.08	11	−0.050	+1.29	6	−0.047	+0.90	2	−0.225	+0.50
Dec. 12	Dec. 13	B	A	+0.084	−0.50	12	+0.068	+0.11	2	+0.210	+0.02	2	+0.050	−4.36
Dec. 22	Dec. 29	D	D C	+0.045	−0.88	27	+0.039	−1.09	8	+0.061	−0.50	3	+0.057	−0.14

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Dates I	Dates II	Images I	Images II	$\Delta\alpha_0$	$\Delta\delta_0$	$9^m.5 \cdot\cdot 8^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$8^m.5 \cdot\cdot 7^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$	$7^m.5 \cdot\cdot 6^m.5$ No. Stars	$\Delta\alpha$	$\Delta\delta$
1884														
Jan. 3	Jan. 10	C B	C B	+0.118	−1.66	18	+0.124	−1.68	7	+0.117	−1.27	3	+0.080	−2.44
Jan. 10	Jan. 16	C B	B	+0.065	+0.05	4	+0.065	+0.05	–	—	—	–	—	—
Jan. 10	Jan. 17	C B	B	−0.043	+0.05	9	−0.038	+0.18	1	−0.090	−1.10	–	—	—
Jan. 16	Jan. 17	B	B	+0.006	+1.56	3	+0.006	+1.56	–	—	—	–	—	—
Jan. 17	Jan. 21	B	D	−0.165	+0.74	1	−0.110	−0.57	–	—	—	1	−0.230	+2.05
Jan. 17	Jan. 22	B	B	−0.180	−1.10	1	−0.170	−1.74	–	—	—	1	−0.190	−0.46
Jan. 21	Jan. 22	D	B	+0.060	−0.70	3	+0.067	−0.10	–	—	—	1	+0.040	−2.51
Jan. 26	Feb. 2	B	B	+0.181	+0.46	10	+0.190	+0.33	2	+0.135	+1.11	–	—	—
Feb. 9	Feb. 16	B	B H	+0.034	+0.78	5	+0.072	+0.31	2	−0.060	+1.96	–	—	—
Feb. 16	Feb. 20	B H	A	−0.004	−0.27	19	−0.026	−0.27	5	+0.078	−0.27	1	+0.010	−0.21
Mar. 1	Mar. 4	B	B	−0.047	−0.16	12	+0.035	−0.25	5	−0.074	+0.05	–	—	—
Feb. 27	Mar. 4	B	B	−0.191	−0.23	12	−0.188	−0.07	2	−0.165	−0.92	1	−0.270	−0.83
Feb. 27	Mar. 3	B	B	−0.022	+1.40	10	−0.041	+1.10	6	+0.007	+1.76	2	−0.010	+1.82
Mar. 10	Mar. 15	B	B	+0.032	+0.31	12	−0.002	+0.21	4	+0.132	+0.62	–	—	—
Mar. 16	Mar. 18	B	B	−0.047	+1.15	7	−0.053	+1.14	3	−0.033	+1.20	–	—	—
Mar. 15	Mar. 18	B	B	+0.031	+0.24	18	+0.041	−0.27	7	−0.004	+1.31	2	+0.060	+1.36
Mar. 12	Mar. 22	B	B	+0.126	−1.24	17	+0.145	−1.35	6	+0.078	−1.14	2	+0.115	−0.65
Mar. 24	Mar. 31	B H	B	−0.006	−0.14	19	−0.023	+0.06	6	0.000	−0.66	3	+0.090	−0.38
Mar. 25	Mar. 31	D	B	−0.054	+0.53	5	−0.060	+0.80	3	−0.043	+0.18	–	—	—
Apr. 12	Apr. 14	B	B	−0.007	+0.08	25	+0.011	−0.39	6	−0.122	−0.95	4	+0.050	−0.26
Apr. 23	Apr. 26	D	D	+0.081	−1.07	13	+0.005	−0.77	3	+0.193	−2.35	–	—	—
Apr. 28	Apr. 30	C H	A	−0.001	−0.49	6	0.000	−0.31	1	−0.050	−1.58	–	—	—
May 12	May 24	A	B	−0.188	+0.50	3	−0.210	+0.74	1	−0.120	−0.23	–	—	—
May 26	May 31	B	B	+0.103	+0.55	27	+0.070	+0.61	9	+0.213	+0.30	2	+0.080	+0.74
June 3	June 4	B	B	+0.042	−0.69	3	+0.040	−0.35	1	+0.050	—	–	—	—
June 3	June 5	B	B	+0.078	+2.91	3	+0.130	+1.48	1	−0.080	+7.19	–	—	—
June 4	June 5	B	B	−0.086	+1.69	5	−0.052	+2.00	4	−0.120	+1.37	–	—	—
June 9	June 14	A	B H	+0.053	+1.78	13	+0.080	+1.62	10	+0.066	+2.28	4	−0.070	+1.05
June 16	June 17	B	B H	0.000	−0.33	19	+0.013	−0.45	3	−0.113	+0.03	1	+0.100	+0.90
June 19	June 21	B	B	−0.094	+0.15	7	−0.106	+0.23	1	−0.060	+0.23	1	−0.050	−0.49
June 26	June 30	B	B	−0.132	−2.32	3	−0.233	−1.31	2	+0.020	−3.33	–	—	—
June 26	July 1	B	B	−0.068	−4.62	2	−0.105	−5.52	2	−0.030	−3.73	–	—	—
June 30	July 1	B	B	+0.043	+0.47	6	+0.065	+0.71	4	+0.008	+0.23	1	+0.050	−0.01
July 3	July 10	B H	B	+0.036	−1.88	7	+0.036	−1.88	–	—	—	–	—	—
July 14	July 15	A	B	−0.060	+0.56	3	−0.100	+0.26	–	—	—	1	+0.060	+1.46
July 14	July 16	A	D	−0.210	+2.56	1	−0.250	+1.73	–	—	—	1	−0.170	+3.38
July 15	July 16	B	D	−0.042	+0.32	8	−0.010	−0.03	2	−0.170	+1.68	–	—	—
July 15	July 17	B	B	−0.104	+1.65	22	−0.088	+1.73	5	−0.176	+1.46	2	−0.095	+1.24
July 21	July 22	D	B	−0.060	+1.06	14	−0.044	+1.39	7	−0.060	+0.47	4	−0.102	+0.96
July 21	July 28	D	B	−0.069	+0.55	11	−0.060	+0.26	5	−0.088	+1.17	–	—	—
July 30	Aug. 2	B	B	+0.210	+0.43	1	+0.160	+0.60	2	+0.235	+0.62	–	—	—

For the computation of the probable error from the residuals given by the differences of the coordinates resulting from successive observations of the same zone, two methods of procedure are open.

First, we may call each difference a residual v, without regard to its algebraic sign. Then for n residuals, we shall have:

$$\text{P.E.} = \frac{0.8453}{\sqrt{2}} \frac{\Sigma[v]}{\sqrt{n(n-1)}} \qquad (6)$$

If the value of n exeeds 17, the probable error within one unit in the third decimal place in α, and in the second decimal place in δ, will be found from the formula:

$$\text{P.E.} = 0.600 \frac{\Sigma[v]}{n} \qquad (7)$$

Second. The residuals may be corrected for the constant difference between them for the two dates considered. We shall then have the series of constants $\Delta\alpha_0$ and $\Delta\delta_0$ given in Table V, while for each pair

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of dates we shall have a new series of residuals from which the probable error may be computed by (6).

Call this probable error ε_1 and designate by ε_2 the probable error of the series of constants $\Delta\alpha_0$ and $\Delta\delta_0$; we shall then have:

$$\text{P.E.} = \sqrt{\varepsilon_1^2 + \varepsilon_2^2} \qquad (8)$$

Evidently the results from this, and the preceding methods should show a substantial agreement.

Proceeding by the first method, we find the following values of the probable error for each year of observation.

Table VI.

	P.E. in α			P.E. in δ		
	$9^m.5 \cdot\cdot 8^m.5$	$8^m.5 \cdot\cdot 7^m.5$	$7^m.5 \cdot\cdot 6^m.5$	$9^m.5 \cdot\cdot 8^m.5$	$8^m.5 \cdot\cdot 7^m.5$	$7^m.5 \cdot\cdot 6^m.5$
1870–71	0ˢ.050	0ˢ.052	0ˢ.057	0″.62	0″.59	0″.54
1872	0.044	0.040	0.044	0.55	0.55	0.42
1873	0.056	0.045	0.039	0.56	0.44	0.45
1874	0.059	0.051	0.048	0.58	0.60	0.62
1875	0.057	0.053	0.046	0.49	0.48	0.49
1876	0.058	0.049	0.057	0.56	0.57	0.55
1877	0.062	0.060	0.058	0.54	0.55	0.54
1878	0.074	0.073	0.071	0.56	0.63	0.43
Means	0.057	0.053	0.053	0.56	0.54	0.51
1883	0.095	0.077	0.080	0.89	0.82	0.84
1884	0 087	0.078	0.080	0.84	0.86	0.89
Means	0.091	0.078	0.080	0.87	0.84	0.87

Excluding the results for the years 1883 and 1884, we have for the average value of the probable error:

0ˢ.054 for α, and 0″.54 for δ.

Proceeding by the second method, the values of ε_1 are shown in Table VII.

Table VII.

Probable errors of a single observation derived from the comparison of coordinates for successive dates.

Limiting Dates		In Right Ascension							In Declination					
		Const.	$9^m.5 \cdot\cdot 8^m.5$		$8^m.5 \cdot\cdot 7^m.5$		$7^m.5 \cdot\cdot 6^m.5$		Const.	$9^m.5 \cdot\cdot 8^m.5$	$8^m.5 \cdot\cdot 7^m.5$	$7^m.5 \cdot\cdot 6^m.5$		
			No.	P.E.	No.	P.E.	No.	P.E.	Means		P.E.	P.E.	P.E.	Means
1870 Dec. 10	1871 Feb. 7	−0ˢ.022	157	0ˢ.036	77	0ˢ.045	22	0ˢ.036	0ˢ.039	−0″.24	0″.58	0″.50	0″.38	0″.49
1871 Feb. 11	Mar. 5	−0.023	79	0.034	23	0.040	6	0.036	0.037	−0.40	0.61	0.40	0.30	0.44
Mar. 2	Apr. 5	−0.021	108	0.037	53	0.039	12	0.039	0.038	−0.05	0.52	0.47	0.62	0.54
Apr. 5	Apr. 24	+0.034	47	0.044	19	0.026	13	0.033	0.034	−0.15	0.54	0.46	0.41	0.47
Apr. 26	May 15	+0.009	57	0.058	20	0.036	—	—	0.047	−0.33	0.59	0.56	—	0.58
May 13	May 29	+0.034	103	0.048	41	0.056	25	0.058	0.054	−0.29	0.53	0.44	0.50	0.49
May 26	June 17	+0.017	126	0.050	48	0.042	17	0.080	0.057	−0.25	0.51	0.44	0.58	0.51
June 9	July 3	−0.023	119	0.044	54	0.041	20	0.039	0.041	+0.07	0.65	0.56	0.46	0.56
July 5	Aug. 17	+0.016	105	0.040	48	0.038	26	0.029	0.036	+0.35	0.57	0.53	0.38	0.49
Aug. 5	Sept. 1	+0.053	166	0.040	43	0.038	17	0.042	0.040	+0.14	0.54	0.42	0.41	0.46
Sept. 2	Oct. 9	+0.021	118	0.047	46	0.042	15	0.030	0.040	−0.05	0.50	0.59	0.31	0.47
Oct. 16	Nov. 9	+0.018	125	0.043	28	0.040	12	0.037	0.040	+0.19	0.47	0.47	0.45	0.46
Nov. 6	Dec. 12	−0.027	60	0.028	24	0.017	3	0.009	0.018	−0.08	0.49	0.33	0.35	0.39
Dec. 20	1872 Jan. 24	−0.017	62	0.039	19	0.040	2	0.081	0.053	+0.02	0.48	0.63	0.42	0.51
1872 Jan. 24	Feb. 17	+0.007	62	0.040	27	0.037	5	0.033	0.037	−0.06	0.52	0.46	0.70	0.56
Feb. 24	Mar. 27	−0.028	46	0.028	12	0.041	4	0.030	0.033	−0.55	0.36	0.37	0.26	0.33
Mar. 28	July 9	+0.002	70	0.035	10	0.029	11	0.046	0.037	0.00	0.42	0.55	0.39	0.45
July 11	Oct. 2	+0.033	44	0.043	18	0.032	15	0.023	0.033	+0.31	0.43	0.37	0.31	0.37
Oct. 3	Nov. 20	+0.041	39	0.044	15	0.058	2	0.021	0.041	+0.02	0.59	0.50	0.32	0.47
Nov. 23	1873 Jan. 9	−0.018	62	0.050	17	0.048	9	0.027	0.042	+0.90	0.54	0.34	0.39	0.42
1873 Jan. 9	Feb. 5	+0.039	34	0.051	6	0.047	2	0.013	0.037	−0.19	0.56	0.58	0.14	0.43
Jan. 28	Feb. 17	+0.037	64	0.048	21	0.045	9	0.042	0.045	+0.31	0.45	0.38	0.36	0.40
Feb. 22	Mar. 8	−0.048	94	0.048	29	0.053	10	0.047	0.049	+0.28	0.46	0.45	0.47	0.46
Mar. 10	Apr. 27	+0.016	85	0.045	35	0.041	10	0.031	0.039	+0.05	0.43	0.42	0.26	0.37

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Limiting Dates		In Right Ascension								In Declination				
		Const.	$9^m.5 \cdot\cdot 8^m.5$		$8^m.5 \cdot\cdot 7^m.5$		$7^m.5 \cdot\cdot 6^m.5$		Means	Const.	$9^m.5 \cdot\cdot 8^m.5$	$8^m.5 \cdot\cdot 7^m.5$	$7^m.5 \cdot\cdot 6^m.5$	Means
			No.	P.E.	No.	P.E.	No.	P.E.			P.E.	P.E.	P.E.	
1873 Apr. 26	1873 May 15	+0.012	31	0.041	5	0.022	4	0.055	0.039	−0.″22	0.″32	0.″25	0.″38	0.″32
May 13	Aug. 5	+0.015	59	0.046	23	0.033	10	0.057	0.045	+0.21	0.47	0.51	0.52	0.50
Aug. 9	Nov. 2	−0.010	87	0.047	38	0.028	17	0.042	0.039	+0.15	0.46	0.35	0.59	0.47
Nov. 4	Dec. 7	−0.007	106	0.047	34	0.047	8	0.034	0.043	+0.34	0.66	0.50	0.66	0.61
Dec. 9	Dec. 18	+0.038	80	0.057	19	0.038	9	0.034	0.043	+0.28	0.48	0.50	0.37	0.45
Dec. 16	1874 Feb. 10	−0.011	53	0.036	19	0.039	15	0.046	0.040	−0.88	0.42	0.49	0.54	0.48
1874 Feb. 10	Mar. 2	−0.019	108	0.046	26	0.038	11	0.046	0.043	+0.09	0.45	1.10	0.55	0.70
Mar. 4	Mar. 23	+0.005	39	0.036	8	0.043	2	0.013	0.031	+0.64	0.40	0.56	0.97	0.64
Mar. 24	May 14	+0.013	123	0.034	26	0.039	12	0.047	0.040	−0.38	0.46	0.42	0.49	0.46
May 19	June 10	+0.025	90	0.055	23	0.038	6	0.032	0.042	+0.67	0.41	0.35	0.27	0.34
June 18	July 13	+0.002	51	0.042	24	0.030	8	0.027	0.033	−0.56	0.46	0.33	0.33	0.37
July 14	July 23	+0.001	75	0.048	35	0.036	5	0.080	0.055	+0.36	0.48	0.62	0.81	0.64
July 30	Aug. 24	−0.013	72	0.049	21	0.047	7	0.049	0.048	−0.01	0.51	0.59	0.56	0.55
Aug. 23	Sept. 9	−0.029	124	0.037	60	0.045	19	0.045	0.042	+0.02	0.46	0.40	0.70	0.52
Sept. 12	Oct. 19	−0.021	134	0.044	33	0.053	27	0.041	0.046	−0.19	0.39	0.36	0.41	0.39
Oct. 20	Nov. 11	+0.027	155	0.050	53	0.041	17	0.036	0.042	+0.22	0.48	0.40	0.47	0.45
Nov. 16	Dec. 10	−0.004	134	0.050	55	0.052	9	0.030	0.044	+0.30	0.47	0.39	0.68	0.51
Dec. 12	1875 Jan. 26	−0.017	74	0.049	23	0.041	11	0.038	0.043	−0.38	0.45	0.49	0.47	0.47
1875 Jan. 27	Feb. 24	+0.019	95	0.051	18	0.045	13	0.057	0.051	+0.05	0.62	0.48	0.42	0.51
Mar. 4	Mar. 28	−0.047	134	0.048	48	0.038	10	0.045	0.044	+0.35	0.47	0.47	0.36	0.43
Mar. 29	Apr. 22	+0.006	100	0.036	34	0.041	14	0.041	0.039	+0.01	0.45	0.47	0.43	0.45
Apr. 24	May 22	−0.022	115	0.053	26	0.035	21	0.039	0.042	−0.20	0.35	0.35	0.39	0.36
May 23	Aug. 9	−0.038	74	0.045	31	0.034	12	0.039	0.039	−0.01	0.43	0.35	0.35	0.38
Aug. 10	Sept. 4	−0.032	118	0.050	27	0.056	15	0.038	0.048	+0.04	0.51	0.40	0.44	0.45
Sept. 5	Oct. 17	+0.006	96	0.050	26	0.050	8	0.048	0.049	−0.28	0.45	0.47	0.62	0.51
Oct. 18	Nov. 11	+0.050	108	0.051	39	0.045	18	0.059	0.052	+0.32	0.43	0.35	0.44	0.41
Nov. 11	1876 Jan. 11	−0.048	114	0.047	41	0.052	4	0.053	0.051	+0.05	0.37	0.35	0.38	0.37
1876 Jan. 12	Feb. 21	+0.019	47	0.044	22	0.037	3	0.087	0.056	+0.07	0.49	0.36	0.24	0.36
Feb. 17	Apr. 2	+0.008	45	0.038	19	0.038	—	—	0.038	−0.11	0.52	0.59	—	0.56
Apr. 10	Aug. 10	−0.010	30	0.047	16	0.040	2	0.063	0.050	+0.10	0.49	0.47	0.88	0.61
Aug. 12	Oct. 3	+0.034	67	0.048	21	0.040	7	0.059	0.049	−0.12	0.48	0.42	0.38	0.43
Oct. 10	Oct. 25	+0.013	84	0.044	26	0.043	20	0.052	0.046	−0.05	0.39	0.30	0.41	0.37
Oct. 29	Dec. 23	+0.009	105	0.037	33	0.049	15	0.044	0.043	−0.46	0.37	0.38	0.62	0.46
Dec. 24	1877 Jan. 30	−0.037	68	0.044	14	0.049	6	0.068	0.054	−0.45	0.45	0.55	0.67	0.56
1877 Feb. 1	Feb. 11	+0.004	63	0.034	22	0.043	14	0.040	0.039	+0.01	0.36	0.32	0.22	0.30
Feb. 14	Mar. 1	−0.023	48	0.045	19	0.033	5	0.040	0.039	+0.41	0.31	0.52	0.82	0.55
Mar. 4	Apr. 23	−0.030	43	0.039	12	0.056	—	—	0.048	−0.01	0.39	0.53	—	0.46
Apr. 22	May 12	+0.048	35	0.070	6	0.051	3	0.080	0.067	−0.08	0.41	0.51	0.44	0.45
May 13	June 19	+0.004	59	0.048	4	0.038	6	0.040	0.042	−0.23	0.46	0.29	0.48	0.41
July 24	Aug. 28	+0.037	63	0.051	32	0.065	4	0.125	0.080	−0.30	0.46	0.38	0.23	0.36
Aug. 28	Sept. 22	+0.012	120	0.059	47	0.037	18	0.044	0.047	+0.05	0.35	0.38	0.35	0.36
Sept. 18	Sept. 27	−0.026	113	0.056	42	0.054	17	0.075	0.062	−0.50	0.50	0.40	0.35	0.42
Sept. 30	Oct. 28	+0.012	125	0.072	53	0.053	19	0.037	0.054	−0.05	0.49	0.43	0.47	0.46
Oct. 29	Nov. 13	−0.058	110	0.057	31	0.094	10	0.049	0.067	+0.12	0.35	0.46	0.44	0.42
Nov. 6	Dec. 13	+0.047	143	0.057	54	0.046	18	0.058	0.054	+0.21	0.31	0.47	0.58	0.45
Dec. 3	Dec. 17	+0.013	149	0.052	39	0.047	22	0.063	0.054	−0.21	0.44	0.44	0.62	0.50
Dec. 17	1878 Jan. 19	−0.047	127	0.060	35	0.051	13	0.042	0.051	−0.34	0.73	0.63	0.51	0.62
1878 Jan. 22	Feb. 11	−0.023	52	0.063	26	0.067	15	0.053	0.061	+0.05	0.96	0.46	0.55	0.66
Feb. 13	Feb. 26	−0.046	36	0.064	12	0.065	—	—	0.060	+0.57	0.65	0.66	—	0.66
Feb. 27	Mar. 26	+0.054	28	0.051	4	0.046	3	0.027	0.041	−0.02	0.40	0.86	0.26	0.51
Mar. 30	May 8	+0.022	42	0.066	2	0.024	4	0.075	0.055	+0.51	0.42	0.37	0.34	0.38
June 3	July 13	−0.008	18	0.045	4	0.058	2	0.017	0.040	+0.03	0.48	0.80	0.44	0.57
July 24	Sept. 16	+0.048	23	0.059	10	0.056	—	—	0.058	−0.06	0.50	0.45	—	0.48
Sept. 17	Oct. 2	0.000	20	0.065	7	0.120	4	0.033	0.073	+0.16	0.56	0.96	0.39	0.64
Oct. 3	Nov. 10	−0.025	21	0.076	10	0.059	—	—	0.068	+0.41	0.58	0.52	—	0.55
Nov. 13	Dec. 16	−0.041	44	0.058	17	0.054	2	0.038	0.050	+0.09	0.52	0.46	1.28	0.75
Dec. 12	Dec. 25	−0.026	7	0.052	7	0.042	—	—	0.047	+0.78	0.64	0.43	—	0.54
Dec. 23	1883 Oct. 17	−0.004	37	0.071	12	0.111	7	0.064	0.082	+0.56	0.74	0.90	0.62	0.75
1883 Oct. 15	Nov. 8	−0.018	118	0.068	32	0.065	11	0.085	0.073	−0.17	0.68	0.63	1.06	0.79
Nov. 12	Dec. 10	+0.024	111	0.078	44	0.073	2	0.048	0.066	−0.49	0.47	0.52	1.15	0.71
Dec. 11	1884 Jan. 16	+0.049	72	0.084	23	0.061	8	0.066	0.070	−0.38	0.69	0.56	0.87	0.71
1884 Jan. 10	Feb. 20	+0.040	44	0.072	7	0.074	—	—	0.073	+0.22	0.78	0.95	—	0.86
Feb. 9	Mar. 15	−0.039	51	0.065	19	0.069	2	0.034	0.056	+0.42	0.75	0.65	0.42	0.61
Mar. 12	Mar. 31	+0.010	66	0.055	25	0.044	7	0.072	0.057	+0.11	0.46	0.57	0.67	0.57
Apr. 12	May 31	−0.002	74	0.065	18	0.073	6	0.069	0.069	−0.09	0.79	0.91	0.62	0.77
June 3	June 17	+0.017	43	0.072	17	0.073	4	0.085	0.077	+1.07	0.69	0.50	0.56	0.58
June 19	July 10	−0.043	25	0.084	8	0.055	—	—	0.070	−1.64	0.69	1.09	—	0.89
Means		+0.001	7157	0.050	2399	0.048	858	0.047	0.049	+0.01	0.50	0.50	0.50	0.50

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The value of ϵ_2, or the average value of the difference between the coordinates for pairs of dates, are given in the following table:

Table VIII.

	$\Delta\alpha_0$	$\Delta\delta_0$		$\Delta\alpha_0$	$\Delta\delta_0$
1870	0^s.044	0".36	1876	0^s.050	0".48
1871	0.044	0.51	1877	0.048	0.44
1872	0.035	0.55	1878	0.063	0.51
1873	0.041	0.49			
1874	0.044	0.43	1883	0.070	0.63
1875	0.049	0.38	1884	0.078	0.96

For the years 1870 to 1878 inclusive, we find for the average difference:
0^s.047 for $\Delta\alpha_0$, and 0".43 for $\Delta\delta_0$.

Substituting these values in formula (6) we find:
P.E. = 0^s.028 for α, and 0".28 for δ.

From Table VII, excluding the years 1883 and 1884, we obtain:
P.E. = 0^s.046 for α, and 0".48 for δ.

Hence by formula (8) we have:
P.E. for $\alpha = \sqrt{(0^s.046)^2 + (0^s.028)^2} = 0^s.054$ P.E. for $\delta = \sqrt{(0''.48)^2 + (0''.28)^2} = 0''.56$.

Adopting the mean of the three sets of values obtained, we have finally:
P.E. for $\alpha = 0^s.054$ P.E. for $\delta = 0''.55$.

For values of n, varying between 1 and 6, we shall have:

No. obs.	P.E. in α	P.E. in δ
1	0^s.054	0".55
2	0.038	0.39
3	0.031	0.32
4	0.027	0.28
5	0.024	0.25
6	0.022	0.22

Expressed in equatorial seconds, P.E. of one observation = 0^s.033.

VARIATIONS IN THE VALUES OF $\Delta\alpha_0$ AND $\Delta\delta_0$ GIVEN IN TABLE V DEPENDING ON THE CHARACTER OF THE IMAGES OF THE STARS OBSERVED.

Even if the accidental errors of observation could be considered as eliminated from the mean difference between the positions of zone stars observed on successive nights, the condition that this difference should be zero would doubtless be affected by the atmospheric conditions under which the observations were made. In order to ascertain how far the residuals $\Delta\alpha_0$ and $\Delta\delta_0$ are affected by atmospheric disturbances, they are grouped together in Table IX under the following general conditions:

(1). When the images of the stars on both nights of observation were either very good, or fairly good, the residuals are classed as A—A, A—B, or B—B. In those cases in which the images on the first night were B, and on the second night A, the signs of the residuals have been changed to make them correspond to the order A—B.

(2). The second group of residuals involve the condition, either of very good minus rather bad images, or fairly good minus rather bad images. As before, the signs of the residuals correspond to the order A—C or B—C.

(3). In the third group, the conditions of the images were all unfavorable, but in different degrees.

(4). In the last group, favorable and unfavorable conditions are compared.

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Table IX.

Mean values of the Constants $\Delta\alpha_0$ and $\Delta\delta_0$ derived from groups of five pairs of dates, and arranged according to the condition of the seeing.

Limiting Dates	$\Delta\alpha_0$	$\Delta\delta_0$	Limiting Dates	$\Delta\alpha_0$	$\Delta\delta_0$	Limiting Dates	$\Delta\alpha_0$	$\Delta\delta_0$
For A–A, A–B, B–B.								
1870 Dec. 10 – 1871 Feb. 21	−0.026	−0.02	1873 Dec. 9 – 1874 Feb. 10	+0.021	−0.46	1877 May 5 – 1877 Aug. 11	+0.006	−0.08
1871 Feb. 21 – Apr. 17	+0.002	−0.05	1874 Feb. 10 – Mar. 22	+0.013	−0.05	» Aug. 27 – Sept. 25	−0.010	−0.45
» Apr. 17 – May 23	+0.004	−0.10	» Mar. 21 – May 14	−0.008	+0.68	» Sept. 24 – Dec. 13	+0.045	+0.32
» May 18 – June 4	+0.040	−0.15	» May 27 – June 28	+0.012	−0.60	» Dec. 3 – 1878 Jan. 28	−0.030	+0.06
» June 6 – July 17	−0.016	+0.24	» June 30 – Sept. 9	+0.009	+0.19	1878 Feb. 3 – Feb. 16	−0.036	+0.55
» July 20 – Aug. 17	+0.031	−0.04	» Oct. 15 – Nov. 10	+0.011	+0.14	» Feb. 24 – May 2	−0.024	−0.32
» Aug. 18 – Sept. 28	+0.061	+0.39	» Nov. 9 – Dec. 10	+0.025	+0.23	» May 2 – Aug. 20	+0.009	−0.27
» Sept. 23 – Nov. 9	−0.003	−0.03	1875 Jan. 14 – 1875 Mar. 11	+0.020	−0.38	» Sept. 12 – Oct. 15	+0.012	+0.06
» Nov. 18 – Dec. 27	−0.010	+0.19	» Mar. 17 – Apr. 22	+0.003	+0.18	» Oct. 16 – Dec. 8	−0.013	+0.19
1872 Jan. 10 – 1872 Mar. 11	+0.007	+0.47	» Apr. 24 – May 26	−0.024	−0.13	1878 Dec. 12 – 1883 Nov. 6	−0.021	+0.59
» Mar. 14 – July 9	+0.016	−0.24	» June 14 – Aug. 29	−0.050	−0.04	1883 Nov. 12 – Dec. 13	+0.038	−0.38
» July 11 – Nov. 17	+0.043	+0.45	» Sept. 1 – Dec. 6	+0.003	+0.21	» Dec. 12 – 1884 Feb. 16	−0.018	+0.14
» Nov. 16 – 1873 Jan. 6	+0.026	+0.25	» Dec. 6 – 1876 Mar. 7	−0.032	+0.01	1884 Feb. 16 – Mar. 15	−0.045	+0.32
1873 Feb. 2 – Mar. 30	−0.013	−0.40	1876 Mar. 13 – Aug. 13	−0.019	+0.18	» Mar. 12 – Apr. 14	+0.019	+0.02
» Apr. 1 – May 12	−0.015	+0.11	» Oct. 15 – Dec. 27	+0.009	−0.23	» May 12 – June 5	−0.010	+0.61
» May 12 – June 17	+0.009	−0.30	1877 Feb. 3 – 1877 Mar. 1	−0.005	+0.23	» June 9 – July 1	−0.048	−0.18
» June 25 – Nov. 2	+0.020	−0.03	» Apr. 12 – May 3	−0.023	−0.08	» June 30 – Aug. 2	+0.022	+0.78
Algebraic Means	+0.010	+0.04		−0.020	+0.01		−0.006	+0.12
Constants	0.020	0.20		0.017	0.24		0.024	0.31
For A–C, B–C.								
1871 Feb. 11 – 1871 Apr. 18	−0.055	−0.29	1873 Mar. 6 – 1874 June 10	+0.018	+0.44	1876 Oct. 29 – 1877 June 17	0.000	+0.14
» Apr. 18 – June 5	−0.019	+0.34	1874 June 2 – Aug. 31	+0.034	+0.24	1877 Sept. 16 – Dec. 8	−0.036	+0.11
» June 14 – Nov. 2	+0.013	−0.57	» Oct. 11 – 1875 Mar. 17	+0.019	−0.36	» Dec. 20 – 1878 June 20	−0.008	−0.46
» Oct. 16 – 1872 Feb. 8	−0.032	−0.36	1875 Mar. 23 – 1876 Jan. 11	−0.001	−0.09	1878 Sept. 2 – 1884 Apr. 30	+0.039	+0.40
1873 Jan. 9 – 1873 Mar. 5	+0.009	+0.24	1876 Jan. 26 – » Oct. 12	−0.021	+0.02			
Algebraic Means	−0.017	−0.13		+0.010	+0.05		−0.001	+0.05
Constants	0.026	0.36		0.019	0.23		0.021	0.28
For C–C, D–D, C–D.								
1871 Mar. 1 – 1873 Feb. 24	−0.007	−0.02	1875 Feb. 1 – 1875 Sept. 7	−0.011	−0.04	1877 Aug. 16 – 1877 Oct. 28	+0.003	−0.21
1873 July 6 – Dec. 7	+0.005	+0.31	» Oct. 13 – 1876 Dec. 19	−0.004	−0.33	» Oct. 29 – Dec. 16	−0.047	−0.30
1874 Feb. 18 – 1874 Sept. 14	−0.036	−0.07	1877 Jan. 13 – 1877 Mar. 20	−0.023	−0.21	1878 Jan. 30 – 1883 Nov. 8	−0.011	−0.26
						1883 Dec. 22 – 1884 Apr. 26	+0.081	−1.20
Algebraic Means	−0.013	+0.07		−0.013	−0.19		+0.006	−0.49
Constants	0.016	0.13		0.013	0.19		0.036	0.49
For A–D, B–D.								
1871 July 1 – 1872 Mar. 11	+0.024	+0.09	1874 Dec. 12 – 1875 Oct. 17	−0.043	+0.35	1877 Aug. 30 – 1878 Jan. 7	−0.054	+0.49
1872 Sept. 28 – 1873 Mar. 5	−0.030	+0.36	1875 Oct. 18 – 1876 Jan. 13	+0.021	+0.78	1878 Feb. 18 – 1879 Jan. 23	−0.075	+0.03
1873 Nov. 4 – Dec. 16	−0.064	−0.03	1876 Jan. 13 – Aug. 28	+0.021	+0.37	1883 Oct. 16 – 1884 Mar. 31	−0.018	+0.03
1874 Jan. 17 – 1874 July 23	−0.035	+0.84	» Nov. 4 – 1877 Feb. 20	−0.033	+0.26	1884 July 14 – July 28	−0.031	+0.32
» Aug. 6 – Oct. 10	−0.001	+0.32	1877 May 5 – Aug. 30	−0.017	−0.15			
Algebraic Means	−0.021	+0.32		−0.010	+0.32		−0.045	+0.22
Constants	0.031	0.33		0.027	0.38		0.045	0.22

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Table X.

Deviations of the separate values of $\Delta\alpha$ and $\Delta\delta$ from the mean values of $\Delta\alpha_0$ and $\Delta\delta_c$, for each pair of dates, arranged in the order of magnitudes.

In groups of five pairs of dates.

Dates	$\Delta\alpha$ 9m5–8m5	$\Delta\alpha$ 8m5–7m5	$\Delta\alpha$ 7m5–6m0	$\Delta\delta$ 9m5–8m5	$\Delta\delta$ 8m5–7m5	$\Delta\delta$ 7m5–6m0	Dates	$\Delta\alpha$ 9m5–8m5	$\Delta\alpha$ 8m5–7m5	$\Delta\alpha$ 7m5–6m0	$\Delta\delta$ 9m5–8m5	$\Delta\delta$ 8m5–7m5	$\Delta\delta$ 7m5–6m0
For A–A, A–B, B–B.													
1870 Dec. 10 1871 Feb. 7	+0.027	+0.004	+0.004	+0.08	+0.11	+0.09	1875 Mar. 31 1875 May 3	−0.003	+0.006	+0.024	−0.05	−0.06	+0.05
1871 Feb. 20 » Mar. 25	−0.011	+0.015	+0.034	+0.14	0.00	−0.03	» May 17 » June 28	+0.011	−0.011	−0.009	0.00	−0.10	+0.33
» Mar. 14 » Apr. 24	+0.008	−0.013	−0.002	+0.01	−0.15	+0.03	» Aug. 7 » Oct. 25	+0.001	+0.023	−0.002	−0.04	+0.07	−0.02
» Apr. 26 » May 24	+0.022	−0.016	−0.048	+0.12	−0.15	−0.58	» Oct. 27 1876 Jan. 20	+0.002	+0.005	−0.021	0.00	+0.02	−0.18
» May 20 » June 12	+0.019	−0.027	−0.014	−0.02	+0.02	−0.02	1876 Feb. 17 » Apr. 2	−0.008	+0.012	−0.073	+0.12	−0.32	+0.28
» June 9 » July 22	+0.006	+0.004	−0.018	+0.02	−0.01	−0.02	» Apr. 10 » Oct. 17	+0.009	−0.010	−0.004	+0.10	−0.11	0.00
» July 23 » Aug. 19	−0.008	+0.011	+0.053	−0.22	+0.33	−0.20	» Nov. 12 1877 Feb. 20	−0.006	+0.008	+0.008	+0.05	−0.05	−0.23
» Aug. 22 » Oct. 5	−0.004	+0.003	+0.001	+0.01	−0.37	+0.34	1877 Feb. 21 » Apr. 23	+0.011	+0.002	−0.045	+0.05	−0.05	+0.09
» Sept. 28 » Nov. 9	+0.024	−0.006	+0.003	−0.03	+0.08	0.00	» Apr. 22 » June 2	+0.008	−0.016	+0.013	+0.02	−0.06	+0.01
» Nov. 19 » Dec. 27	+0.004	−0.009	−0.010	−0.14	+0.19	+0.14	» June 18 » Sept. 16	−0.008	+0.010	−0.010	−0.05	−0.01	+0.33
1872 Jan. 10 1872 Mar. 11	−0.003	−0.002	+0.003	+0.04	−0.14	+0.13	» Sept. 22 » Nov. 7	−0.012	+0.017	+0.049	+0.01	+0.03	−0.02
» Mar. 14 » July 9	+0.001	+0.013	−0.030	−0.04	+0.12	+0.09	» Dec. 3 1878 Jan. 19	+0.003	+0.002	−0.026	−0.05	+0.08	+0.08
» July 11 » Nov. 17	−0.012	+0.002	+0.044	−0.08	+0.12	−0.02	1878 Jan. 22 » Feb. 16	+0.009	0.000	+0.018	+0.12	−0.33	+0.14
» Nov. 16 1873 Jan. 6	0.000	+0.001	+0.022	−0.08	−0.02	+0.08	» Feb. 14 » Mar. 19	0.000	+0.036	−0.096	+0.15	−0.23	−0.62
1873 Feb. 2 » Mar. 30	−0.002	−0.003	−0.008	−0.03	+0.11	−0.15	» Apr. 18 » July 1	+0.005	+0.025	+0.018	+0.46	−0.99	+0.08
» Apr. 1 » May 12	+0.008	−0.012	0.000	+0.14	−0.22	−0.14	» July 24 » Oct. 2	−0.010	+0.047	0.000	+0.19	−0.44	−0.18
» May 12 » June 17	−0.002	−0.021	+0.037	−0.02	+0.30	+0.35	» Oct. 3 » Nov. 12	−0.001	+0.017	−0.018	+0.08	0.00	+0.37
» June 25 » Nov. 2	−0.005	+0.006	+0.005	−0.01	−0.02	+0.02	» Nov. 13 1883 Oct. 10	+0.021	−0.017	+0.013	+0.20	−0.37	+0.03
» Dec. 9 1874 Feb. 11	−0.001	−0.015	+0.010	−0.09	+0.13	+0.27	1883 Oct. 30 » Nov. 28	−0.006	+0.006	+0.009	+0.22	−0.09	+0.39
1874 Feb. 4 » Mar. 22	+0.004	−0.009	−0.018	−0.02	+0.07	−0.05	» Dec. 3 1884 Jan. 22	−0.003	+0.050	−0.061	+0.24	+0.49	−0.61
» Mar. 22 » June 9	−0.010	−0.007	−0.019	+0.04	+0.02	−0.23	1884 Jan. 26 » Mar. 4	−0.017	+0.045	+0.046	+0.11	−0.27	+0.33
» June 18 » July 13	−0.014	+0.013	+0.018	−0.03	+0.05	+0.18	» Feb. 27 » Mar. 22	+0.005	−0.012	−0.010	+0.21	−0.38	−0.71
» July 30 » Oct. 21	−0.003	+0.012	−0.010	−0.19	+0.12	+0.05	» Mar. 24 » June 4	+0.011	−0.015	−0.043	−0.23	+0.63	+0.13
» Oct. 22 » Nov. 18	−0.001	+0.015	−0.011	−0.01	−0.11	+0.10	» June 3 » June 21	−0.023	+0.052	−0.007	−0.03	−0.16	+0.05
» Nov. 18 1875 Jan. 26	−0.008	+0.031	+0.011	−0.06	−0.02	+0.48	» June 26 » Aug. 2	+0.031	−0.018	−0.045	−0.26	+0.31	0.00
1875 Jan. 27 » Mar. 30	−0.001	−0.008	−0.009	+0.01	+0.14	−0.26							
Algebraic Means	+0.001	−0.001	+0.002	−0.02	+0.03	+0.02		+0.001	+0.011	−0.011	+0.06	−0.10	0.00
Constants	0.007	0.011	0.017	0.06	0.12	0.16		0.009	0.018	0.027	0.12	0.23	0.21
For A–C, B–C.													
1871 Feb. 11 1871 Apr. 18	+0.011	−0.036	+0.014	0.00	+0.09	+0.76	1875 Jan. 10 1875 Mar. 28	+0.009	−0.013	−0.017	+0.02	−0.04	+0.22
» May 10 » June 17	−0.003	−0.002	+0.010	+0.02	−0.03	+0.24	» May 4 1876 Feb. 22	+0.007	−0.013	+0.016	+0.04	−0.09	0.00
» June 27 1872 Jan. 12	+0.011	−0.023	−0.009	−0.13	+0.02	+0.30	1876 May 23 1877 Feb. 3	+0.004	−0.009	−0.003	−0.11	+0.22	+0.15
1872 Feb. 7 1873 Jan. 19	+0.002	−0.021	−0.001	+0.01	+0.18	−0.36	1877 Feb. 3 » Sept. 22	0.000	+0.022	+0.005	+0.06	+0.08	−0.19
1873 Feb. 10 » Nov. 19	+0.009	−0.034	+0.006	+0.05	−0.38	+0.84	» Sept. 26 » Nov. 13	−0.002	+0.007	+0.002	+0.04	+0.05	+0.07
1874 Mar. 4 1874 July 18	−0.004	+0.012	−0.033	+0.07	−0.31	+0.11	» Nov. 13 1878 Mar. 31	+0.009	0.000	−0.055	+0.02	+0.13	−0.24
» Aug. 10 » Nov. 26	−0.006	+0.012	+0.012	−0.05	+0.42	−0.36	1878 Sept. 2 1884 Apr. 30	−0.014	+0.006	−0.036	−0.03	+0.05	+0.22
Algebraic Means	+0.003	−0.013	0.000	0.00	0.00	+0.22		+0.002	0.000	−0.013	+0.01	+0.06	+0.03
Constants	0.007	0.020	0.012	0.05	0.20	0.42		0.006	0.010	0.019	0.05	0.09	0.16
For C–C, D–D, C–D.													
1871 Jan. 1 1873 Feb. 24	−0.002	+0.012	0.000	+0.10	−0.27	+0.26	1876 Oct. 18 1877 Jan. 30	+0.005	−0.007	−0.038	−0.03	+0.15	+0.10
1873 July 6 » Nov. 6	+0.004	−0.013	−0.014	−0.11	+0.24	+0.04	1877 Mar. 15 » Nov. 4	+0.004	−0.001	−0.030	−0.01	+0.10	+0.40
» Nov. 10 1874 Aug. 24	+0.008	−0.013	+0.017	+0.16	+0.37	+0.54	» Oct. 29 » Dec. 19	−0.011	+0.077	−0.036	+0.05	+0.33	−0.30
1874 Sept. 12 1875 Apr. 14	+0.004	−0.003	−0.031	−0.01	+0.19	−0.08	» Dec. 15 1878 Sept. 30	+0.022	−0.006	−0.047	−0.14	+0.18	+0.01
1875 Aug. 25 1876 Aug. 30	−0.010	+0.053	+0.014	+0.04	−0.30	−0.08	1883 Oct. 15 1884 Apr. 26	+0.015	−0.011	−0.023	+0.15	+0.21	−0.33
Algebraic Means	+0.001	+0.007	−0.003	+0.04	+0.05	+0.14		+0.007	+0.010	−0.035	0.00	+0.19	−0.02
Constants	0.006	0.019	0.015	0.08	0.27	0.20		0.011	0.020	0.035	0.08	0.19	0.23
For A–D, B–D.													
1871 July 1 1872 Mar. 11	+0.030	−0.011	+0.014	−0.13	−0.27	+0.48	1876 Aug. 21 1877 Feb. 8	−0.001	+0.018	−0.038	−0.03	0.00	+0.06
1872 Sept. 28 1873 Mar. 5	+0.001	−0.003	−0.013	−0.05	+0.34	0.00	1877 Feb. 8 » May 12	−0.008	+0.025	+0.003	+0.03	+0.44	−0.30
1873 Nov. 4 1874 Jan. 18	−0.021	+0.019	0.000	+0.09	−0.32	+0.11	» July 24 » Sept. 11	+0.002	−0.010	−0.023	+0.02	+0.01	−0.07
1874 Apr. 2 » Aug. 22	−0.003	−0.014	−0.001	−0.03	−0.08	+0.29	» Dec. 16 1878 May 8	+0.005	−0.022	−0.039	−0.27	−0.63	−0.63
» Aug. 24 1875 Aug. 25	+0.004	−0.017	+0.020	−0.11	+0.34	+0.08	1878 Sept. 23 1883 Oct. 22	−0.003	+0.015	−0.067	−0.15	+0.44	−0.55
1875 Sept. 8 » Nov. 22	+0.007	−0.022	−0.045	−0.15	−0.05	+0.52	1884 Jan. 21 1884 July 28	+0.006	+0.030	−0.034	+0.35	−0.42	−0.46
» Dec. 6 1876 Aug. 10	0.000	+0.017	−0.075	+0.03	−0.27	+0.70							
Algebraic Means	+0.003	−0.004	−0.014	−0.05	−0.04	+0.31		0.000	+0.009	−0.033	−0.01	−0.03	−0.33
Constants	0.009	0.015	0.024	0.08	0.24	0.31		0.004	0.020	0.034	0.14	0.32	0.35

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Tables IX and X do not furnish decisive evidence of systematic variations in the residuals involved, depending on the season of the year, with one exception. For "very good images minus very bad images", the residuals in α are clearly negative while those in δ are clearly positive.

The mean of the residuals $\Delta\alpha_o$ and $\Delta\delta_o$, without regard to sign seem to be very nearly constant for each of the conditions involved. Taking the mean of the values for groups of given pairs of dates we find:

For A—A, A—B, B—B	$\Delta\alpha_o = 0^s.020$	$\Delta\delta_o = 0''.28$
For A—C, B—C	$\Delta\alpha_o = 0.022$	$\Delta\delta_o = 0.29$
For C—C, D—D, C—D	$\Delta\alpha_o = 0.022$	$\Delta\delta_o = 0.27$
For A—D, B—D	$\Delta\alpha_o = 0.034$	$\Delta\delta_o = 0.31$

That the co-ordinates determined at different seasons of the year have essentially equal values, is confirmed by a comparison of the probable errors of observations determined from observations made during the summer with those made during the winter months. It does not seem necessary to give the details of this comparison. It will be sufficient to give the values of $\Delta\alpha_o$ and $\Delta\delta_o$ arranged in groups extending over a period of three months.

	For {A–A, A–B, B–B}		For {A–C, B–C}		For {C–C, D–D, C–D}		For {A–D, B–D}	
	$\Delta\alpha_o$	$\Delta\delta_o$	$\Delta\alpha_o$	$\Delta\delta_o$	$\Delta\alpha_o$	$\Delta\delta_o$	$\Delta\alpha_o$	$\Delta\delta_o$
Jan. . . . March	$-0^s.007$	$0''.00$	$-0^s.004$	$+0''.02$	$-0^s.011$	$-0''.18$	$-0^s.026$	$+0''.41$
Apr. . . . June	−0.009	−0.05	−0.010	+0.18	+0.022	−0.25	−0.012	+0.48
July . . . Sept.	+0.010	+0.14	+0.022	−0.10	−0.003	+0.11	−0.025	+0.19
Oct. . . . Dec.	+0.012	+0.12	−0.010	−0 11	−0.005	−0.43	−0.024	+0.29

PROVISIONAL DETERMINATIONS OF THE PROPER MOTIONS OF CERTAIN STARS OF THE ZONE CATALOGUE.

All the previous observations of the stars of this catalogue which are found in other catalogues have been reduced to 1875.0, and from a comparison of the positions for different epochs, a provisional determination of the proper motion has been made for such stars as give evidence of a progressive motion. The details of this discussion will appear in a subsequent volume of the Annals of the Observatory. It is believed however, that the publication in this volume of the tabular values of the systematic corrections required to reduce the various catalogue positions to the system of the Gesellschaft, and of the provisional proper motions obtained, will serve a useful purpose. The values of the proper motions given, are to be considered as provisional; first, because they depend upon the positions given in this catalogue; second, because it cannot yet be assumed that the general system of the present catalogue is in exact harmony with the system of the Gesellschaft; third, because in those cases in which the data given depend upon only two or three authorities, at epochs separated by a short interval of time, it is uncertain whether an apparent progressive motion may not be due to accidental errors of observation. In general, the proper motions have been determined only for such stars as have their progressive movement indicated by at least three authorities. The values of the systematic reductions to the system of the Gesellschaft given in Table XI are the result of three approximations. In the first approximation it was assumed that all residuals exceeding $0^s.5$ in α and $5''$ in δ were due to proper motion, and such stars were omitted from the first discussion. The systematic corrections thus obtained were then applied and a first approximation was obtained for such stars as gave decisive evidence of proper motion.

In the second approximation, the deviations from the provisional system obtained in the first approximation were derived by introducing the provisional corrections due to the proper motion, and new values of the proper motions were then found.

In the third approximation, the same order of procedure was followed yielding corrections to the results given by the second approximation. The values given in Table XI are the sum of three sets of corrections obtained in the manner indicated.

The graphical method was employed throughout in this discussion. The actual values of the corrections $\Delta\alpha$ and $\Delta\delta$ in the final reductions to 1875.0 were derived from a smooth curve whose form was determined by the numbers given in the table.

It is to be noted that the tabular values involve such systematic corrections as are due to the neglect of the third term of the precession in the reduction of the various catalogue positions to 1875.0. Hence, in all cases in which these reductions to the system of the Gesellschaft are employed, any re-reduction from the epoch of a given catalogue to 1875.0 must be made by using only the first and the second terms of the precession. It should be added also that with the exception of the Harvard College positions, the proper motions have been computed from the epochs of the various catalogues and not from the mean date of observation.

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Table XI.

Tabular values of the systematic corrections required to reduce the co-ordinates given by different catalogues, to the system of the Gesellschaft.

α	H.C.O. minus Fedorenko, 1790		H.C.O. minus Piazzi, 1800		H.C.O. minus Lalande, 1800		H.C.O. minus Groombridge, 1810		H.C.O. minus Struve, 1830		H.C.O. minus Pond, 1830		H.C.O. minus Argelander, 1830		H.C.O. minus Madras, 1835	
	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ
0h 0m	−0s.14	−0″.4	+0s.42	−0″.6	+0s.28	−1″.0	+0s.28	0″.0	−0s.01	−1″.5	+0s.09	−0″.4	+0s.10	−0″.8	−0s.08	+0″.4
0 30	−0.14	+0.1	+0.39	−1.1	+0.29	−1.0	+0.24	−0.3	+0.05	−1.1	+0.08	−0.4	+0.11	−1.0	−0.05	+0.2
1 0	−0.12	0.0	+0.38	−1.3	+0.32	−0.9	+0.23	−0.5	+0.09	−1.3	+0.07	−0.5	+0.12	−1.1	−0.02	0.0
1 30	−0.06	−0.4	+0.37	−1.2	+0.33	−0.7	+0.22	−0.8	+0.12	−1.4	+0.07	−0.6	+0.13	−1.2	0.00	0.0
2 0	+0.02	−1.1	+0.38	−1.3	+0.33	−0.5	+0.18	−0.9	+0.11	−1.3	+0.08	−0.7	+0.12	−1.3	+0.02	−0.1
2 30	+0.10	−1.9	+0.39	−0.9	+0.31	−0.1	+0.17	−0.9	+0.10	−1.1	+0.08	−0.9	+0.13	−1.4	+0.04	−0.2
3 0	+0.17	−2.6	+0.36	−0.9	+0.28	+0.5	+0.19	−0.8	+0.07	−0.9	+0.07	−0.9	+0.13	−1.5	+0.06	−0.3
3 30	+0.16	−3.1	+0.35	−1.2	+0.30	+1.2	+0.18	−0.9	+0 06	−0.9	+0.08	−1.0	+0.12	−1.5	+0.07	−0.3
4 0	+0.14	−3.0	+0.33	−1.1	+0.34	+1.8	+0.16	−1.1	+0.08	−1.2	+0.07	−1.0	+0.12	−1.5	+0.10	−0.2
4 30	+0.11	−2.9	+0.28	−1.2	+0.39	+2.1	+0.13	−1.3	+0.09	−1.3	+0.06	−1.0	+0.10	−1.4	+0.13	0.0
5 0	+0.10	−2.5	+0.22	−1.1	+0.40	+2.2	+0.12	−1.4	+0.09	−1.2	+0.06	−1.0	+0.09	−1.4	+0.12	−0.2
5 30	+0.09	−2.1	+0.18	−1.2	+0.38	+2.0	+0.11	−1.6	+0.10	−1.1	+0.06	−0.9	+0.08	−1.3	+0.09	−0.2
6 0	+0.11	−1.7	+0.18	−1.4	+0.34	+1.5	+0.11	−1.7	+0.08	−0.7	+0.04	−1.0	+0.06	−1.1	+0.05	0.0
6 30	+0.08	−1.7	+0.20	−1.5	+0.27	+0.4	+0.10	−1.9	+0.08	−0.7	+0.02	−0.9	+0.06	−1.0	−0.02	+0.3
7 0	+0.05	−2.0	+0.15	−1.6	+0.18	−0.5	+0.08	−1.8	+0.05	−0.4	0.00	−0.9	+0.05	−0.9	−0.07	+0.6
7 30	+0.02	−1.8	+0.10	−1.5	+0.08	−1.3	+0.04	−1.8	+0.02	−0.6	−0.03	−0.9	+0.05	−0.8	−0.10	+0.8
8 0	−0.09	−1.5	−0.05	−1.4	+0.01	−2.0	+0.04	−1.8	0.00	−0.5	−0.04	−0.9	+0.07	−0.6	−0.11	+0.8
8 30	−0.19	−1.1	−0.15	−1.2	0.00	−2.0	+0.05	−1.6	−0.02	−0.3	−0.06	−0.8	+0.08	−0.6	−0.12	+0.7
9 0	−0.20	−0.6	−0.17	−1.1	0.00	−1.9	+0.10	−1.5	−0.04	−0.2	−0.08	−0.7	+0.08	−0.5	−0.13	+0.8
9 30	−0.19	−0.6	−0.16	−0.9	−0.01	−1.6	+0.14	−1.1	−0.05	0.0	−0.09	−0.8	+0.07	−0.4	−0.16	+0.7
10 0	−0.21	−0.8	−0.15	−0.8	+0.01	−1.1	+0.10	−1.0	−0.04	+0.1	−0.10	−0.9	+0.07	−0.4	−0.20	+0.6
10 30	−0.17	−1.0	−0.09	−0.8	+0.05	−0.8	+0.06	−1.0	−0.02	−0.2	−0.11	−1.0	+0.07	−0.3	−0.23	+0.5
11 0	−0.14	−1.7	−0.06	−0.7	+0.09	−0.6	+0.02	−0.9	0.00	−0.3	−0.12	−1.0	+0.06	−0.5	−0.23	+0.7
11 30	−0.13	−2.7	0.00	−0.6	+0.11	−0.4	+0.01	−0.9	0.00	−0.2	−0.13	−0.9	+0.03	−0.4	−0.21	+0.8
12 0	−0.15	−3.4	+0.06	−0.7	+0.11	−0.5	0.00	−0.8	−0.01	0.0	−0.13	−0.8	+0.01	−0.4	−0.18	+0.8
12 30	−0.15	−3 5	+0.12	−0.7	+0.11	−0.4	−0.01	−0.8	−0.06	+0.2	−0.12	−0.7	−0.03	−0.3	−0.13	+0.8
13 0	−0.14	−3.6	+0.17	−0.6	+0.04	−0.2	−0.01	−0.7	−0.10	+0.2	−0.12	−0.6	−0.07	−0.2	−0.08	+0.7
13 30	−0.14	−3.6	+0.21	−0.3	−0.05	−0.3	−0.02	−0.2	−0.10	0.0	−0.10	−0.4	−0.08	−0.3	−0.05	+0.8
14 0	−0.10	−3.4	+0.24	0.0	−0.04	−0.1	−0.03	+0.1	−0.10	−0.4	−0.09	−0.1	−0.09	−0.2	−0.03	+1.0
14 30	−0.06	−3.3	+0.26	+0.2	+0.01	−0.3	−0.03	0.0	−0.05	−0.8	−0.09	+0.1	−0.10	−0.1	0.00	+1.0
15 0	−0.08	−3.5	+0.26	+0.2	+0.15	−0.6	−0.01	−0.1	−0.02	−0.7	−0.08	+0.3	−0.10	−0.1	+0.02	+1.1
15 30	−0.18	−3.4	+0.27	+0.2	+0.22	−1.0	+0.01	+0.2	0.00	−0.7	−0.07	+0.6	−0.10	−0.3	+0.02	+1.1
16 0	−0.18	−3.0	+0.28	−0.5	+0.26	−1.4	+0.05	+0.5	+0.01	−0.5	−0.08	+0.7	−0.09	−0.4	+0.01	+1.2
16 30	−0.16	−2.4	+0.29	−0.8	+0.24	−1.7	+0.11	+0.8	+0.01	−0.5	−0.09	+0.9	−0.07	−0.3	+0.01	+1.1
17 0	−0.14	−1.8	+0.29	−1.0	+0.18	−1.8	+0.16	+1.1	0.00	−0.4	−0.10	+1.0	−0.04	−0.3	+0.01	+1.1
17 30	−0.11	−1.4	+0.30	−0.9	+0.19	−1.9	+0.19	+1.2	+0.02	−0.4	−0.09	+0.9	−0.01	−0.2	+0.03	+1.1
18 0	−0.08	−1.4	+0.31	−1.1	+0.22	−1.5	+0.20	+1.4	+0.02	−0.2	−0.07	+0.7	+0.01	−0.1	+0.04	+1.3
18 30	−0.03	−1.3	+0.33	−1.2	+0.27	−1.2	+0.22	+1.1	+0.03	0.0	−0.03	+0.4	+0.05	0.0	+0.07	+1.2
19 0	+0.01	−1.2	+0.33	−1.1	+0.33	−0.8	+0.22	+0.9	+0.05	+0.3	0.00	0.0	+0.07	0.0	+0.07	+1.2
19 30	+0.03	−1.1	+0.34	−0.9	+0.37	−0.4	+0.22	+1.0	+0.07	+0.5	+0 03	−0.2	+0.08	+0.1	+0.08	+1.2
20 0	+0.04	−1.2	+0.36	−0.3	+0.36	−0.1	+0.23	+1.1	+0.09	+0.6	+0.06	−0.5	+0.10	+0.1	+0.08	+1.1
20 30	+0.05	−1.3	+0.36	−0.1	+0.37	+0.1	+0.24	+1.2	+0.11	+0.6	+0.07	−0.7	+0.11	+0.1	+0.08	+0.9
21 0	+0.03	−1.3	+0.37	−0.1	+0.40	0.0	+0.23	+1.0	+0.10	+0.5	+0.08	−0.7	+0.12	+0.2	+0.08	+0.9
21 30	−0.01	−0.8	+0.36	−0.2	+0.44	0.0	+0.21	+0.8	+0.10	+0.3	+0.10	−0.7	+0.13	+0.2	+0.09	+0.8
22 0	−0.03	−0.7	+0.37	−0.1	+0.46	−0.5	+0.20	+0.4	+0.07	0.0	+0.11	−0.7	+0.15	+0.1	+0.07	+0.7
22 30	−0.05	−0.8	+0.37	0.0	+0.45	−0.8	+0.21	+0.3	+0.05	−0.5	+0.12	−0.6	+0.15	+0.1	+0.06	+0.6
23 0	−0.07	−0.9	+0.36	−0.1	+0.41	−1.0	+0.24	+0.1	+0.02	−1.0	+0.12	−0.5	+0.15	+0.1	+0.04	+0.5
23 30	−0.10	−0.6	+0.38	−0 4	+0.36	−0.9	+0.30	0.0	0.00	−1.3	+0.14	−0.4	+0.13	−0.4	0.00	+0.4

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α	H.C.O. minus Rümker, 1836		H.C.O. minus Greenwich, 1840		H.C.O. minus Armagh, 1840		H.C.O. minus Argelander, 1842		H.C.O. minus Paris, 1845		H.C.O. minus Greenwich, 1845		H.C.O. minus Radcliffe, 1845		H.C.O. minus Borst-Peters, 1850	
	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ
0h 0m	+0s.14	−0″.9	−0s.05	−0″.9	+0s.03	−0″.2	−0s.12	−0″.3	+0s.18	+0″.2	−0s.06	−0″.6	+0s.05	+0″.1	+0s.10	+0″.1
0 30	+0.14	−0.6	−0.05	−0.6	+0.04	−0.3	−0.11	+0.1	+0.17	+0.5	−0.04	−1.0	+0.04	−0.1	+0.04	−0.6
1 0	+0.13	−0.3	−0.04	−0.3	+0.05	−0.6	−0.04	−0.1	+0.07	+0.6	−0.02	−1.2	+0.06	−0.1	+0.02	−0.9
1 30	+0.14	−0.3	−0.03	−0.2	+0.06	−1.0	+0.06	−0 3	+0.02	+0.8	+0.02	−1.2	+0.07	−0.2	+0.04	−0.9
2 0	+0.16	−0.9	−0.03	−0.3	+0.06	−1.3	+0.14	0.0	0.00	+0.9	+0.06	−1.1	+0.03	−0.4	+0.07	−1.0
2 30	+0.18	−1.1	−0.02	−0.4	+0.06	−1.2	+0.14	+0.1	−0.02	+0.9	+0.11	−0.7	+0.01	−0.4	+0.14	−0.7
3 0	+0.20	−1.1	−0.02	−0.7	+0.05	−1.1	+0.06	+0.3	−0.01	+0.8	+0.14	−0.2	0.00	−0.5	+0.17	−0.4
3 30	+0.20	−1.2	−0.02	−1.2	+0.04	−0.9	−0.02	+0.3	+0.01	−0.2	+0.13	+0.1	0.00	−0.6	+0.17	−0.1
4 0	+0.17	−1.1	−0.01	−1.6	+0.04	−0.7	−0.04	0.0	+0.02	−1.7	+0.10	+0.2	+0.02	−0.7	+0.14	+0.3
4 30	+0.12	−1.1	−0.01	−1.4	+0.05	−0.6	−0.03	−0.4	+0.05	−2.1	+0.10	+0.1	0.00	−0.7	+0.11	+0.3
5 0	+0.10	−1.1	−0.01	−1.2	+0.07	−0.5	−0.01	−0.5	+0.05	−2.2	+0.11	−0.1	−0.02	−0.7	+0.09	+0.1
5 30	+0.11	−1.2	0.00	−0.8	+0.09	−0.8	+0.01	−0.1	+0.07	−2.3	+0.09	−0.3	−0.04	−0.9	+0.06	−0.1
6 0	+0.13	−1.3	0.00	−0.7	+0.12	−0.8	+0.04	−0.2	+0.07	−2.6	+0.09	−0.4	−0.04	−0.6	+0.04	−0.4
6 30	+0.14	−1.6	0.00	−0.6	+0.12	−0.8	+0.06	−1.6	—	—	+0.07	−0.6	−0.05	−0.6	+0.03	−0.8
7 0	+0.16	−1.9	0.00	−0.3	+0.11	−0.7	+0.04	−1.7	—	—	+0.05	−0.9	−0.05	−0.6	+0.03	−1.2
7 30	+0.17	−1.8	−0.01	−0.2	+0.08	−0.4	−0.01	−1.0	—	—	+0.03	−1.1	−0.09	−0.5	+0 05	−1.5
8 0	+0.15	−1.7	0.00	−0.1	+0.05	−0.5	−0.02	−0.4	—	—	+0.01	−0.8	−0.11	−0.4	+0.04	−1.5
8 30	+0.01	−1.4	−0.01	−0.2	+0.02	−0.3	0.00	−0.1	—	—	−0.02	−0.4	−0.13	−0.4	+0.05	−0.6
9 0	−0.08	−1.0	−0.01	−0.9	+0.01	−0.1	+0.03	−0.2	—	—	−0.03	0.0	−0.14	−0.4	+0.06	+0.1
9 30	−0.11	−0.7	0.00	−1.1	0.00	+0.2	+0.06	−0.9	—	—	−0.03	+0.2	−0.13	−0.3	+0.06	+0.6
10 0	−0.12	−0.6	−0.01	−1.0	0.00	+0.3	+0.07	−1.4	—	—	−0.04	+0.4	−0.13	−0.1	+0.05	+1.1
10 30	−0.11	−0.5	0.00	−0.8	−0.01	+0.1	+0.05	−1.1	—	—	−0.04	+0.4	−0.16	−0.2	+0.05	+1.5
11 0	−0.12	−0.4	0.00	−0.4	0.00	0.0	−0.01	−0.3	—	—	−0.05	+0.4	−0.15	−0.1	+0.06	+1.5
11 30	−0.12	−0.3	+0.01	−0.3	−0.01	−0.4	−0.06	+0.1	—	—	−0.04	+0.4	−0.15	−0.2	+0.08	+1.3
12 0	−0.09	−0.3	+0.02	−0.1	−0.03	−0.6	−0.07	0.0	—	—	−0.05	+0.2	−0.14	−0.3	+0.09	+0.5
12 30	−0.07	−0.3	+0.05	+0.1	−0.04	−0.7	−0.04	−0.3	—	—	−0.05	0.0	−0.15	−0.2	+0.10	−0.2
13 0	+0.03	−0.2	+0.08	0.0	−0.02	−0.8	−0.03	−0.5	—	—	−0.04	−0.2	−0.16	−0.2	+0.09	−0.3
13 30	+0.02	−0.6	+0.11	0.0	0.00	−0.7	−0.01	−0.7	—	—	−0.02	−0.5	−0.10	+0.1	+0.09	−0.5
14 0	0.00	−0.8	+0.12	−0.1	+0.05	−0.7	+0.02	−0.5	—	—	+0.02	−0.5	−0.06	+0.3	+0.09	−0.4
14 30	+0.01	−0.8	+0.13	−0.3	+0.10	−0.5	+0.02	+0.3	—	—	+0.07	−0.5	−0.07	+0.4	+0.07	−0.3
15 0	+0.01	−0.9	+0.14	−0.2	+0.10	−0.4	+0.08	+0.6	—	—	+0.10	−0.4	−0.06	+0.6	+0.04	−0.1
15 30	+0.03	−0.8	+0.14	−0.1	+0.10	−0.3	+0.13	+0.5	—	—	+0.11	−0.2	−0.03	+0.6	0 00	+0.4
16 0	+0.05	−0.8	+0.12	+0.1	+0.08	−0.2	+0.14	0.0	—	—	+0.12	−0.1	−0.01	+0.5	−0.06	+1.4
16 30	+0.06	−0.8	+0.08	+0.4	+0.06	−0.3	+0.13	−0.2	—	—	+0.10	0.0	+0.01	+0.5	−0.06	+2.1
17 0	+0.09	−0.6	+0.05	+0.4	+0.05	−0.4	+0.10	−0.5	—	—	+0.08	+0.2	+0.03	+0.8	−0.03	+2.3
17 30	+0.11	−0.1	+0.04	+0.5	+0.06	−0.5	+0.08	−0.4	—	—	+0.06	+0.2	+0.02	+0.9	+0.01	+2.0
18 0	+0.13	+0.1	+0.05	+0.5	+0.06	−0.4	+0.10	−0.3	—	—	+0.05	+0.2	+0.03	+0.5	+0.04	+1.2
18 30	+0.14	+0.1	+0.09	+0.3	+0.04	−0.5	+0.06	−0.5	—	—	+0.05	+0.2	+0.02	+0.2	+0.04	+0.7
19 0	+0.14	0.0	+0.13	+0.1	+0.03	−0.6	+0.10	−0.3	—	—	+0.05	+0.2	+0.04	+0.2	+0.03	+0.5
19 30	+0.13	−0.2	+0.15	+0.2	+0.01	−0.5	+0.19	+0.6	—	—	+0.05	0.0	+0.06	+0.4	−0.02	+0.5
20 0	+0.14	−0.4	+0.18	+0.1	−0.02	−0.5	+0.20	+0.8	—	—	+0.08	+0.1	+0.04	+0.6	−0.09	+0.5
20 30	+0.14	−0.6	+0.18	+0.2	−0.03	−0.5	+0.14	0.0	—	—	+0.10	+0.3	+0.09	+0.4	−0.09	+0.3
21 0	+0.14	−0.7	+0.20	+0.3	−0.01	−0.3	+0.04	0.0	—	—	+0.12	+0.5	+0.06	+0.5	−0.08	+0.1
21 30	+0.15	−0.8	+0.20	+0.3	+0.02	−0.3	+0.02	+0.3	—	—	+0.11	+0.5	+0.04	+0.8	−0.05	−0.1
22 0	+0.16	−0.7	+0.17	+0.2	+0.04	0.0	+0.01	0.0	—	—	+0.07	+0.3	+0.05	+0.5	−0.02	−0.3
22 30	+0.16	−0.6	+0.14	0.0	+0.04	0.0	−0.03	−0.6	—	—	+0.02	+0.1	+0.05	+0.5	+0.01	−0.2
23 0	+0.17	−0.4	+0.10	−0.1	+0.04	0.0	0.00	−0.6	—	—	−0.02	0.0	+0.06	+0.5	+0.03	−0.2
23 30	+0.17	−0.5	+0.03	−0.5	+0.03	−0.1	−0.05	−0.5	—	—	−0.04	−0.2	+0.06	+0.3	+0.07	−0.1

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α	H.C.O. minus Greenwich, 1850		H.C.O. minus Rümker, 1850		H.C.O. minus Pulkowa, 1855		H.C.O. minus Bonn, 1855		H.C.O. minus Paris, 1860		H.C.O. minus Washington, 1860		H.C.O. minus Radcliffe, 1860		H.C.O. minus Greenwich, 1860	
	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ
$0^h\ 0^m$	0ˢ.00	−0″.4	−0ˢ.05	+0″.3	−0ˢ.02	+0″.2	+0ˢ.23	−1″.1	−0ˢ.08	+0″.8	−0ˢ.06	−0″.2	+0ˢ.07	−0″.3	+0ˢ.02	−0″.2
0 30	+0.07	−0.5	−0.01	0.0	+0.01	+0.4	+0.26	−1.3	−0.03	+0.8	−0.02	+0.3	+0.09	0.0	−0.02	+0.2
1 0	+0.13	−0.7	+0.04	0.0	+0.03	+0.2	+0.29	−1.5	+0.03	+0.8	+0.02	+0.7	+0.11	+0.1	−0.01	+0.4
1 30	+0.21	−0.9	+0.09	+0.1	+0.03	+0.1	+0.30	−1.5	+0.07	+0.8	+0.06	+0.7	+0.11	−0.1	−0.01	+0.5
2 0	+0.23	−1.1	+0.11	−0.1	+0 04	−0.1	+0.32	−1.3	+0.11	+0.9	+0.08	+0.8	+0.08	−0.9	+0.01	+0.7
2 30	+0.21	−1.0	+0.13	−0.6	+0.05	−0.4	+0.33	−1.0	+0.14	+1.0	+0.09	+0.7	+0.06	−1.3	+0.03	+0.7
3 0	+0.18	−0.8	+0.12	−0.7	+0.04	−0.3	+0.32	−0.6	+0.17	+1.2	+0.08	+0.5	+0.03	−1.4	+0.03	+0.5
3 30	+0.16	−0.8	+0.13	−0 7	+0.04	−0.2	+0.31	−0.5	+0.18	+1.2	+0.08	+0.2	0.00	−1.4	+0.04	+0.3
4 0	+0.14	−0.7	+0.12	−0.8	+0.02	+0.1	+0.28	−0.5	+0.18	+0.5	+0.06	+0.1	−0.04	−1.3	+0.01	+0.2
4 30	+0.08	−0.7	+0.12	−1.1	+0.02	+0.2	+0.23	−0.3	+0.18	−0.6	+0.04	0.0	−0.06	−1.1	+0.01	0.0
5 0	+0.07	−0.5	+0.11	−1.6	+0.02	+0.2	+0.19	−0.4	+0.14	−0.7	+0.04	0.0	−0.08	−0.8	+0.01	0.0
5 30	+0.08	−0.4	+0.10	−2.0	+0.02	+0.2	+0.15	−0.5	−0.15	−0.8	+0.03	0.0	−0.08	−0.5	0.00	0.0
6 0	+0.12	−0.3	+0.09	—	+0.03	+0.1	+0.13	−0.5	−0.03	−0.9	+0.03	0.0	−0.09	0.0	+0.01	0.0
6 30	+0.15	−0.4	—	—	+0.05	0.0	+0.14	−0.6	—	—	+0.02	−0.2	−0.09	+0.4	+0.01	−0.1
7 0	+0.17	−0.4	—	—	+0.06	+0.1	+0.16	−0.5	—	—	+0.02	−0.4	−0.08	+0.6	−0.01	0.0
7 30	+0.18	−0.6	—	—	+0.04	+0.3	+0.19	−0.7	—	—	0.00	−0.7	−0.06	+0.5	−0.02	−0.1
8 0	+0.18	−0.5	—	—	+0.03	+0.2	+0.22	−0.8	—	—	0.00	−0.9	−0.06	+0.2	−0.03	+0.1
8 30	+0.17	−0.5	—	—	0.00	+0.3	+0.23	−0.7	—	—	+0.01	−0.7	−0.07	−0.2	−0.05	0.0
9 0	+0.13	−0.4	—	—	−0.03	+0.4	+0.23	−0 7	—	—	+0.02	−0.3	−0.09	−0.5	−0.06	+0.1
9 30	+0.10	−0.2	—	—	−0.06	+0.5	+0.20	−0.6	—	—	+0.05	0.0	−0.11	−0.8	−0.07	+0.2
10 0	+0.06	−0.1	—	—	−0.07	+0.3	+0.19	−0.2	—	—	+0.08	+0.6	−0.15	−0.8	−0.09	+0.5
10 30	+0.02	0.0	—	—	−0.09	+0.3	+0.20	+0.3	—	—	+0.09	+0.9	−0.16	−0.7	−0.08	+0.5
11 0	−0.01	0.0	—	—	−0.08	+0.1	+0.23	+0.5	—	—	+0.07	+1.1	−0.16	−0.3	−0.07	+0.8
11 30	−0.04	+0.1	—	—	−0.07	0.0	+0.25	+0.4	—	—	+0.07	+1.2	−0.14	0.0	−0.07	+0.8
12 0	−0.07	0.0	—	—	−0.05	0.0	+0.27	0.0	—	—	+0.04	+1.2	−0.10	+0.2	−0.05	+0.9
12 30	−0.07	0.0	—	—	−0.04	0.0	+0.27	−0.5	—	—	+0.01	+1.2	−0.07	+0.3	−0.04	+1.0
13 0	−0 07	0.0	—	—	−0.04	0.0	+0.27	−0.7	—	—	−0.02	+1.1	−0.04	+0.2	−0.01	+0.9
13 30	−0.05	−0.1	—	—	−0.04	0.0	+0.26	−0.7	—	—	−0.03	+0.9	0.00	+0.2	0.00	+0.8
14 0	−0.03	0.0	—	—	−0.02	+0.3	+0.24	−0.6	—	—	−0.04	+0.7	+0.05	+0.1	+0.01	+0.3
14 30	+0.01	+0.1	—	—	+0.01	+0.5	+0.23	−0.7	—	—	−0.04	+0.5	+0.09	0.0	+0.02	0.0
15 0	+0.03	+0.2	—	—	+0.04	+0.7	+0.24	−0.7	—	—	−0.03	+0.5	+0.10	−0.3	+0.01	0.0
15 30	+0.03	+0.2	—	—	+0.06	+0.6	+0.25	−0.8	—	—	−0.03	+0.6	+0.08	−0.5	0.00	−0.1
16 0	+0.04	+0.1	—	—	+0.04	+0.2	+0.28	−0.9	—	—	−0.03	+0.7	+0.08	−0.5	0.00	0.0
16 30	+0.03	+0 3	—	—	+0.03	0.0	+0.31	−1.0	—	—	−0.01	+0.8	+0.09	−0.3	−0.01	+0.1
17 0	+0.02	+0.2	—	—	+0.01	−0.3	+0.35	−0.6	—	—	+0 01	+0.8	+0.10	−0.3	−0.02	+0.3
17 30	+0.02	+0.2	—	—	0.00	−0.2	+0.34	−0.4	—	—	0.00	+0.9	+0.11	0.0	−0.01	+0.4
18 0	+0.04	+0.2	—	—	−0.01	−0.2	+0.27	−0.4	—	—	0.00	+0.8	+0.13	+0.3	0.00	+0.5
18 30	+0.06	+0.3	—	—	−0.01	+0.2	+0.23	−0.7	—	—	0.00	+0.8	+0.14	+0.5	+0.01	+0.5
19 0	+0.08	+0.4	—	—	0.00	+0.4	+0.20	−1.1	—	—	+0.01	+0.8	+0.12	+0.7	−0.01	+0 4
19 30	+0.10	+0.5	—	—	0.00	+0.6	+0.20	−1.5	—	—	+0.03	+0.7	+0.10	+0.8	−0.02	+0.3
20 0	+0.10	+0.5	—	—	+0.02	+0.8	+0.23	−1.5	—	—	+0.06	+0.6	+0.12	+0.9	−0.01	+0.4
20 30	+0.09	+0.5	—	—	+0.03	+0.9	+0.26	−1.2	—	—	+0.09	+0.5	+0.14	+0.9	+0.01	+0.3
21 0	+0.09	+0.5	—	—	+0.07	+0.9	+0.24	−0.9	—	—	+0.11	+0.4	+0.18	+0.8	+0.05	+0.2
21 30	+0.08	+0.6	—	—	+0.10	+1.0	+0.24	−0.5	—	—	+0.13	+0.2	+0.19	+0.6	+0.09	+0 4
22 0	+0.06	+0.5	—	—	+0.11	+1.0	+0.25	−0.3	—	—	+0.08	0.0	+0.19	+0.4	+0.10	+0.5
22 30	+0.04	+0.2	—	—	+0.09	+0.8	+0.26	−0.3	—	—	+0.07	−0.2	+0.17	+0.2	+0.11	+0.5
23 0	+0.05	0.0	—	—	+0.08	+0.7	+0.28	−0.3	—	—	+0.03	−0.4	+0.13	+0.1	+0.09	+0.5
23 30	+0.03	−0.2	—	—	+0.05	+0.6	+0.27	−0.7	—	—	−0.02	−0.4	+0.11	−0.1	+0.06	+0.3

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α	H.C.O. minus Greenwich, 1864		H.C.O. minus Brussels, 1865		H.C.O. minus Glasgow, 1870		H.C.O. minus Greenwich, 1872		H.C.O. minus Paris, 1875		H.C.O. minus Borst-Peters, 1875		H.C.O. minus De Ball, 1880	H.C.O. minus Greenwich, 1880	
	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δα	Δδ	Δδ	Δα	Δδ
$0^h\ 0^m$	+0ˢ.09	+0″.4	0ˢ.00	−0″.4	+0ˢ.10	+0″.2	+0ˢ.13	+0″.1	+0ˢ.09	−0″.1	−0ˢ.03	−0″.1	+0″.4	−0ˢ.01	+0″.2
0 30	+0.07	−0.1	0.00	−0.4	+0.08	+0.6	+0.14	+0.1	+0.14	+0.1	−0.01	−0.2	+0.1	0.00	+0.3
1 0	+0.05	−0.4	0.00	−0.5	+0.06	+1.0	+0.14	0.0	+0.14	+0.2	+0.01	−0.2	+0.1	+0.01	+0.4
1 30	+0.04	−0.4	+0.02	−0.5	+0.05	+0.9	+0.12	0.0	+0.12	+0.1	+0.02	0.0	+0.1	+0.01	+0.4
2 0	+0.03	−0.4	+0.03	−0.5	+0.06	+0.9	+0.10	0.0	+0.10	+0.2	+0.04	+0.2	+0.2	+0.02	+0.4
2 30	+0.03	−0.3	+0.04	−0.5	+0.06	+1.0	+0.08	0.0	+0.11	+0.3	+0.04	+0.1	+0.4	+0.03	+0.4
3 0	0.00	−0.3	+0.05	−0.5	+0.07	+1.1	+0.04	+0.1	+0.10	+0.1	+0.03	−0.1	+0.6	+0.05	+0.4
3 30	−0.02	−0.1	+0.05	−0.5	+0.10	+1.1	+0.02	+0.2	+0.11	+0.1	+0.03	−0.2	+0.8	+0.06	+0.5
4 0	−0.04	0.0	+0.04	−0.4	+0.14	+1.1	−0.02	+0.3	+0.13	+0.1	+0.02	−0.1	+0.9	+0.08	+0.5
4 30	−0.03	+0.1	+0.03	−0.4	+0.15	+1.0	−0.01	+0.3	+0.12	0.0	+0.03	+0.1	+1.0	+0.08	+0.5
5 0	−0.01	+0.2	+0.03	−0.3	+0.15	+1.1	0.00	+0.4	+0.10	−0.1	+0.01	+0.2	+1.1	+0.08	+0.6
5 30	0.00	+0.3	+0.04	−0.1	+0.14	+1.0	+0.02	+0.4	+0.05	−0.3	−0.01	+0.3	+1.2	+0 08	+0.8
6 0	−0.02	+0.4	+0.04	0.0	+0.13	+0.9	+0.03	+0.3	+0.01	−0.5	−0.03	+0.5	+1.2	+0.07	+1.0
6 30	−0.03	+0.4	+0.05	+0.2	+0.07	+0.6	+0.03	+0.1	—	—	−0.03	+0.5	+1.2	+0.06	+1.0
7 0	−0.05	+0.4	+0.04	+0.4	−0.02	+0.2	+0.03	−0.2	—	—	−0.04	+0.6	+1.1	+0.05	+1.0
7 30	−0.07	+0.4	+0.03	+0.5	−0.05	−0.2	+0.03	−0.3	—	—	−0.03	+0.5	+1.0	+0.03	+1.0
8 0	−0.09	+0.5	0.00	+0.6	−0.08	−0.4	+0.04	−0.6	—	—	0.00	+0.3	+0.9	+0.02	+0.9
8 30	−0.08	+0.6	−0.03	+0.6	−0.10	−0.3	+0.04	−0.7	—	—	+0.02	+0.2	+0.8	0.00	+0.9
9 0	−0.03	+0.6	−0.03	+0.6	−0.12	0.0	+0.04	−0.9	—	—	+0.05	+0.2	+0.6	−0 02	+0.9
9 30	+0.04	+0.6	−0.02	+0.5	−0.12	+0.6	+0.01	−0.8	—	—	+0.05	+0.3	+0.6	−0.04	+0.9
10 0	+0.07	+0.5	−0.01	+0.3	−0.13	+1.2	+0.02	−0.7	—	—	+0.06	+0.5	+0.7	−0.04	+0.9
10 30	+0.08	+0.4	+0.01	+0.2	−0.13	+1.3	+0.02	−0.4	—	—	+0.06	+0.6	+0.7	−0.04	+0.8
11 0	+0.07	+0.2	+0.03	0.0	−0.12	+1.3	+0.05	−0.3	—	—	+0.06	+0.5	+0.5	−0.03	+0.5
11 30	+0.07	+0.2	+0.04	−0.1	−0.12	+1.2	+0.07	0.0	—	—	+0.05	+0.3	+0.4	−0.02	+0.3
12 0	+0.08	+0.2	+0.05	−0.2	−0.10	+0.8	+0.09	0.0	—	—	+0.04	+0.1	+0.2	0.00	+0.2
12 30	+0.06	0.0	+0.05	−0.2	−0.09	+0.2	+0.09	0.0	—	—	+0.03	−0.1	+0.1	+0.01	+0.1
13 0	+0.04	0.0	+0.04	−0.2	−0.07	−0.1	+0.08	−0.3	—	—	+0.02	−0.2	−0.1	+0.02	+0.1
13 30	+0.03	−0.1	−0.02	−0.1	−0.04	−0.4	+0.05	−0.6	—	—	0.00	−0.4	−0.2	+0.04	+0.1
14 0	+0.03	−0.1	−0.03	+0.1	−0.01	−0.3	+0.03	−1.0	—	—	0.00	−0.8	−0.2	+0.05	+0.2
14 30	+0.03	0.0	−0.03	+0.2	+0.01	0.0	+0.03	−1.0	—	—	+0.01	−0.9	−0.1	+0.06	+0.4
15 0	+0.03	0.0	−0.02	+0.2	+0.05	+0.3	+0.04	−1.2	—	—	−0.01	−1.3	0.0	+0.07	+0.5
15 30	+0.04	+0.1	−0.01	+0.3	+0 08	+0.7	+0.06	−1.2	—	—	0.00	−1.7	0.0	+0.08	+0.5
16 0	+0.03	+0.2	0.00	+0.3	+0.10	+1.0	+0.07	−1.4	—	—	0.00	−1.8	0.0	+0.09	+0.3
16 30	+0.02	+0.2	+0.01	+0.2	+0.11	+1.1	+0.07	−1.3	—	—	+0.01	−1.8	0.0	+0.10	+0.1
17 0	+0.01	+0.3	+0.03	+0.2	+0.12	+1.1	+0.07	−1.1	—	—	+0.02	−1.7	−0.1	+0.10	+0.1
17 30	+0.01	+0.4	+0.04	+0.1	+0.12	+1.1	+0.07	−0.8	—	—	+0.05	−1.2	−0.4	+0.10	+0.2
18 0	−0.01	+0.3	+0.06	0.0	+0.10	+1.0	+0.07	−0.4	—	—	+0.06	−1.0	−0.8	+0.09	+0.3
18 30	0.00	+0.3	+0.07	−0.1	+0.08	+1.0	+0.06	0.0	—	—	+0.07	−0.8	−0.8	+0.06	+0.4
19 0	0.00	+0.3	+0.08	−0.1	+0.08	+0.9	+0.04	+0.2	—	—	+0.07	−0.7	−0.7	+0.03	+0.5
19 30	+0.01	+0.5	+0.08	+0.1	+0.07	+0.6	+0.05	+0.2	—	—	+0.08	−0.5	−0.7	+0.02	+0.4
20 0	+0.04	+0.5	+0.07	+0.2	+0.07	+0.6	+0.09	+0.3	—	—	+0.07	−0.3	−0.6	+0.02	+0.5
20 30	+0.06	+0.4	+0.05	+0.4	+0.06	+0.5	+0.12	+0.3	—	—	+0.06	+0.1	−0.5	+0.03	+0.6
21 0	+0.07	+0.7	+0.05	+0.4	+0.06	+0.4	+0.15	+0.2	—	—	+0.06	+0.3	−0.3	+0.03	+0.6
21 30	+0.08	+0.5	+0.06	+0.4	+0.06	+0.3	+0.15	−0.1	—	—	+0.06	+0.4	−0.1	+0.02	+0.5
22 0	+0.09	+0.4	+0.07	+0.3	+0.07	+0.2	+0.16	−0.4	—	—	+0.05	+0.5	+0.2	+0.01	+0.4
22 30	+0.09	+0.3	+0.07	+0.2	+0.08	+0.1	+0.16	−0.5	—	—	+0.04	+0.6	+0.5	−0.01	+0.4
23 0	+0.09	+0.3	+0.06	−0.1	+0.08	0.0	+0.16	−0.5	—	—	+0.04	+0.5	+0.6	−0.01	+0.3
23 30	+0.10	+0.4	+0.04	−0.3	+0.10	−0.1	+0.15	−0.3	—	—	+0 01	+0.3	+0.5	−0.01	+0.3

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Table XII.

List of provisional proper motions.

Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'
45	—	−0.054	758	−0.0074	—	1451	−0.0076	+0.072	2000	−0.0065	−0.001
65	−0.0140	—	771	−0.0080	—	1457	+0.0054	—	2010	−0.0016	—
68	—	−0.062	785	+0.0012	−0.064	1460	+0.0184	+0.038	2014	−0.0035	+0.027
72	−0.005	—	787	—	+0.046	1468	+0.0218	—	2015	—	+0.102
75	−0.0026	−0.038	793	−0.0053	—	1473	—	−0.043	2024	−0.0011	+0.013
78	—	+0.039	794	+0.008	+0.08	1479	+0.0042	−0.056	2025	−0.0039	—
85	−0.0071	−0.032	798	—	+0.040	1484	+0.0103	−0.037	2081	−0.0035	−0.142
86	—	−0.04	818	—	−0.029	1485	−0.0078	+0.047	2084	+0.0022	+0.040
92	+0.0047	+0.157	821	−0.0040	+0.040	1506	−0.0088	+0.024	2094	−0.0092	—
96	−0.0027	—	822	+0.009	—	1521	—	+0.043	2101	−0.0058	—
106	—	−0.073	846	—	−0.091	1531	−0.0092	+0.016	2103	−0.0016	—
113	—	+0.089	850	—	+0.035	1540	−0.0017	—	2105	−0.0020	+0.034
145	+0.010	+0.09	852	−0.0104	—	1545	+0.008	—	2114	−0.010	—
153	+0.0064	−0.048	857	+0.012	—	1549	—	+0.076	2115	+0.0059	−0.084
154	+0.0006	—	868	−0.0054	—	1563	−0.0016	−0.036	2116	+0.0010	+0.001
168	−0.0034	—	891	+0.0087	—	1593	+0.0017	—	2118	−0.0046	−0.021
179	−0.0128	−0.081	892	—	+0.08	1604	−0.0086	−0.043	2121	+0.0241	+0.160
182	—	−0.080	900	+0.0031	+0.041	1611	−0.0045	+0.039	2122	+0.0063	—
190	+0.010	+0.06	915	−0.0103	—	1617	+0.0026	+0.060	2146	−0.0058	+0.082
211	−0.0073	—	920	−0.0067	—	1633	+0.0086	−0.089	2175	—	+0.089
213	+0.0055	−0.053	932	−0.0039	—	1641	+0.0100	−0.130	2197	—	+0.064
216	−0.0065	—	950	−0.0059	—	1650	−0.0114	+0.101	2201	−0.0027	—
223	+0.0047	−0.042	963	+0.0058	—	1651	−0.0128	—	2202	—	−0.088
235	—	+0.026	964	−0.0048	—	1654	+0.0098	−0.119	2203	−0.0026	+0.064
237	+0.0064	—	965	+0.0089	−0.073	1657	−0.0050	—	2205	−0.0142	−0.211
239	+0.0046	−0.115	977	−0.0149	—	1659	−0.0044	—	2207	—	−0.083
241	+0.0064	—	981	−0.0042	−0.048	1661	—	+0.036	2211	+0.0046	—
279	+0.0063	—	997	+0.0046	−0.020	1680	+0.008	—	2212	+0.0015	+0.116
290	−0.0051	—	1006	—	−0.024	1685	+0.0092	—	2219	−0.0027	—
302	+0.0046	—	1018	−0.0070	—	1697	—	−0.031	2227	−0.0029	−0.044
312	−0.0050	—	1020	−0.0038	—	1712	+0.0036	−0.087	2229	—	+0.030
318	−0.0052	+0.049	1021	−0.0042	−0.023	1730	−0.0136	—	2236	—	+0.034
320	+0.0105	−0.037	1022	+0.0328	—	1731	+0.0107	−0.116	2241	−0.0561	+0.083
345	+0.0034	—	1036	—	−0.010	1759	−0.0048	+0.048	2257	—	−0.170
352	−0.0098	+0.038	1040	−0.0065	—	1760	−0.0028	—	2262	−0.0028	−0.490
354	+0.0076	—	1045	−0.0057	—	1764	—	−0.040	2277	−0.0013	−0.024
367	+0.0133	+0.016	1047	—	−0.029	1766	−0.0057	+0.041	2284	—	+0.069
370	−0.0026	—	1052	+0.0015	—	1773	+0.0054	—	2304	−0.0043	+0.055
394	−0.0099	−0.054	1067	−0.0106	+0.104	1777	−0.0027	+0.040	2316	+0.0175	—
400	−0.0051	—	1071	−0.0046	−0.017	1782	—	+0.058	2331	—	−0.041
417	+0.0245	+0.101	1086	+0.0060	+0.078	1785	−0.0204	—	2332	—	+0.056
425	—	+0.024	1101	−0.0053	—	1790	+0.0051	−0.019	2350	−0.0058	+0.031
435	—	+0.065	1103	+0.0037	—	1791	—	+0.107	2356	+0.0098	+0.056
443	−0.0030	—	1106	−0.0081	−0.035	1792	−0.0025	−0.015	2366	+0.0146	−0.078
456	+0.0041	—	1108	+0.007	—	1799	+0.0059	+0.080	2370	−0.0005	—
461	+0.0057	+0.012	1111	−0.0032	—	1802	—	−0.09	2373	—	+0.045
470	−0.0061	—	1142	+0.0036	−0.135	1809	−0.010	—	2374	—	+0.045
486	−0.0012	−0.099	1148	+0.0077	+0.055	1816	—	−0.057	2379	—	−0.019
491	—	−0.050	1164	+0.0127	−0.084	1820	+0.0148	—	2382	—	+0.044
514	+0.386	−1.58	1178	+0.0093	—	1822	+0.0040	—	2384	+0.0032	—
527	—	+0.048	1184	−0.0062	—	1823	−0.0024	+0.026	2390	−0.0085	+0.01
531	−0.0056	−0.100	1211	−0.0020	+0.075	1824	—	−0.066	2391	+0.00038	—
532	−0.0057	—	1237	+0.0062	−0.025	1825	+0.0108	+0.051	2399	+0.0005	−0.015
541	+0.0259	—	1245	+0.0035	—	1831	+0.0066	—	2410	+0.0083	+0.086
547	—	−0.028	1252	+0.0085	−0.065	1837	—	+0.065	2420	+0.0042	−0.055
554	+0.0062	−0.053	1262	—	+0.078	1852	−0.0064	—	2430	—	−0.29
599	−0.0031	—	1264	—	−0.028	1868	−0.0042	+0.022	2450	+0.0041	−0.047
600	−0.0142	−0.043	1292	−0.0096	—	1875	—	+0.047	2451	−0.0027	−0.063
601	+0.0021	—	1303	+0.0047	—	1877	—	−0.033	2452	+0.0005	+0.041
605	+0.0254	−0.106	1319	−0.0080	−0.050	1883	+0.0077	−0.056	2462	−0.0063	—
623	+0.0041	—	1328	—	−0.028	1889	−0.0048	+0.102	2470	−0.0020	—
640	—	−0.032	1332	−0.0028	—	1901	—	+0.075	2474	—	−0.024
655	−0.0032	—	1338	+0.0035	—	1904	+0.0048	−0.103	2476	−0.0002	−0.051
659	−0.0118	+0.080	1349	+0.0070	−0.10	1905	+0.0029	+0.004	2490	—	−0.046
686	+0.0095	−0.038	1410	+0.0167	−0.065	1937	+0.0065	—	2495	+0.0051	—
707	−0.0023	−0.016	1418	+0.0106	—	1941	—	+0.14	2501	−0.0044	+0.059
714	—	+0.047	1425	+0.0028	—	1970	—	+0.09	2503	−0.0090	+0.028
724	+0.0066	−0.071	1429	+0.0030	−0.028	1978	—	+0.053	2509	+0.0025	+0.086
746	−0.0032	—	1441	—	−0.035	1981	−0.0060	−0.06	2510	—	+0.039
754	−0.0037	—	1450	−0.0073	−0.070	1984	—	−0.042	2513	−0.0085	+0.031

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Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'
2532	—	−0.″132	3120	—	−0.″083	3604	—	+0.″064	4093	+0.″0049	+0.″171
2539	−0.″0036	—	3123	+0.″0070	—	3609	+0.″0025	−0.002	4096	−0.0090	−0.032
2542	−0.0138	—	3124	−0.012	—	3611	−0.0101	+0.057	4099	−0.0080	—
2545	−0.0037	−0.097	3139	—	−0.06	3613	−0.0035	—	4123	−0.0060	+0.070
2596	−0.0020	−0.049	3145	—	−0.056	3632	−0.0060	−0.007	4133	−0.0447	−0.148
2614	−0.009	−0.09	3152	—	+0.041	3633	−0.0054	—	4140	+0.0087	—
2622	−0.0034	−0.028	3156	+0.0061	—	3647	−0.0039	−0.032	4145	−0.0091	—
2640	+0.0154	—	3160	—	−0.048	3652	+0.0072	−0.085	4147	−0.0079	—
2645	−0.007	−0.13	3161	+0.0168	—	3654	−0.0012	—	4169	−0.0101	—
2650	+0.0056	—	3162	—	+0.029	3660	−0.0014	−0.020	4172	−0.0230	—
2651	−0.0010	—	3164	—	+0.056	3661	+0.0287	+0.133	4173	−0.0019	+0.032
2652	+0.0099	—	3165	−0.0052	−0.352	3665	−0.0024	—	4186	—	+0.042
2657	+0.0041	—	3167	+0.0044	−0.043	3675	—	+0.019	4200	+0.0078	−0.016
2668	−0.0099	—	3181	+0.1057	—	3685	−0 0083	−0.077	4204	+0.009	—
2671	+0.0021	+0.052	3183	+0.0046	+0.047	3695	—	+0.040	4208	—	−0.102
2683	−0.0024	—	3189	−0.0077	+0.014	3700	—	+0.008	4233	−0.0063	+0.005
2698	—	−0 020	3192	−0.0020	−0.007	3705	—	−0.058	4250	—	+0.01
2701	—	−0.035	3195	−0.0016	−0.003	3719	−0.0058	+0.012	4258	−0.0018	+0.042
2704	−0.0046	—	3201	+0.0050	−0.109	3726	—	+0.077	4260	+0.0050	—
2705	—	+0.066	3214	+0.024	—	3730	+0.0058	—	4269	+0.0023	+0.060
2715	−0.006	—	3232	+0.0056	+0.068	3732	−0.0020	−0.028	4286	−0.0085	+0.026
2723	−0.0008	−0.046	3236	+0.0047	+0.030	3733	−0.0028	−0.043	4296	+0.0046	−0.083
2729	—	+0 082	3273	−0.0063	−0.081	3734	−0.0038	−0.052	4307	—	+0.039
2737	+0 0092	—	3274	—	+0.063	3742	−0.005	—	4321	+0.0024	+0.055
2743	+0.0085	—	3280	+0.0031	+0.008	3748	−0.0055	+0.030	4322	+0.0027	+0.046
2754	—	−0.037	3286	+0.0023	+0.035	3754	+0.0023	—	4323	−0.0006	—
2755	—	−0.081	3292	−0.0168	−0.028	3771	—	−0.06	4325	+0.0021	+0.004
2768	+0.0018	+0.037	3301	—	+0.026	3775	—	+0.058	4326	+0.0006	+0.005
2771	+0.0043	+0.029	3308	−0.0120	−0.049	3788	+0.009	−0.052	4329	−0.0016	−0.006
2792	+0.0022	−0.062	3317	+0.0182	—	3795	−0.0049	−0.006	4333	−0.0123	+0.078
2795	+0 0012	—	3320	+0.0047	+0.030	3799	−0.0020	−0.036	4334	—	−0.024
2801	+0.008	—	3333	−0.178	−0.61	3801	+0.0020	−0.030	4335	−0.0149	+0.099
2804	+0.004	−0.040	3335	−0.173	−0.68	3802	−0.0018	—	4340	+0.0032	−0.014
2822	−0 0007	−0.018	3338	+0.0050	+0.068	3810	−0.0062	+0.038	4343	—	−0.068
2823	−0.0024	—	3344	−0.0076	—	3822	−0.0034	−0.037	4349	+0.0084	—
2836	−0.0089	—	3354	−0.0003	—	3824	−0.0044	—	4356	—	−0.025
2846	−0.0060	−0.067	3357	−0.0036	+0.159	3825	+0.0046	−0.031	4365	+0.0048	−0.062
2848	−0.0070	—	3358	−0.0031	+0.165	3827	+0.0123	+0.069	4367	−0.0106	−0.040
2849	—	−0.066	3368	—	+0.082	3829	−0.0076	—	4374	+0.0065	+0.058
2861	+0.0143	−0.041	3369	+0.0015	+0.015	3841	−0.0165	−0.081	4381	−0.0136	—
2865	−0.0031	—	3378	+0.0086	—	3848	—	−0.104	4394	−0.0005	−0.012
2866	—	−0.043	3379	−0.0099	−0 008	3852	−0.0140	+0.096	4408	—	−0.039
2886	−0.0030	−0.024	3380	+0.0060	—	3854	—	−0.055	4413	—	−0.061
2889	−0.0053	−0.073	3383	−0.0091	+0.021	3878	—	+0.103	4414	+0.0053	−0.027
2892	+0.010	—	3384	−0.0069	−0.020	3886	−0.0096	—	4418	−0.0165	—
2908	−0.0022	−0.066	3415	−0.0121	−0.066	3889	−0.0025	−0.053	4427	—	−0.036
2911	−0.0021	−0.043	3418	−0.0072	—	3896	—	+0.05	4430	−0.0003	−0.004
2912	−0.0050	−0 025	3423	−0.0045	—	3898	+0.0087	−0.023	4437	−0.0069	—
2923	+0.0032	−0.023	3440	−0.0014	−0.083	3907	−0.011	—	4438	—	−0.157
2943	−0.0042	+0.041	3442	+0.0029	+0.025	3921	−0.0148	—	4441	−0.0038	+0.049
2945	−0.0057	−0.061	3445	−0.0078	−0.080	3930	−0.0020	+0.041	4447	+0.0096	—
2962	−0.0045	+0.073	3448	+0.0064	−0.056	3931	−0.0075	—	4449	+0.0070	−0.026
2975	−0.010	—	3459	−0.0046	+0.008	3936	+0.0194	—	4454	−0.040?	—
2977	+0.0070	−0.053	3469	—	+0.052	3938	−0.0132	—	4464	—	−0.077
2987	+0.0174	−0.092	3479	−0.0112	−0.027	3946	+0.0084	—	4465	+0.0142	+0.022
2988	+0.0070	−0.078	3480	−0.007	—	3951	+0.0127	+0.032	4480	−0.0132	+0.086
2995	−0.0035	—	3494	—	+0.028	3971	−0.0142	+0.068	4481	−0.0053	—
3009	−0.0065	—	3497	+0.010	—	3976	−0.0085	+0.050	4488	+0.0002	—
3014	+0.016	—	3498	+0.0051	−0.050	3981	+0.0037	−0.011	4489	—	+0.080
3015	+0.0036	−0.048	3511	+0.0063	+0.033	3988	+0.0066	—	4492	+0.0002	—
3044	−0.0054	+0.004	3514	−0.0063	—	3989	+0.0084	—	4498	+0.0054	—
3048	—	+0.075	3537	+0.0190	−0.036	3999	+0.0099	−0.030	4503	—	−0.031
3054	+0 0046	−0.033	3538	—	+0.06	4002	—	−0.095	4506	+0.0038	+0.048
3057	+0.001	−0.042	3541	+0.008	—	4006	—	−0.088	4507	+0.0005	+0.008
3063	+0.0125	—	3547	+0.0036	−0.030	4015	—	−0.172	4512	−0.0079	—
3067	—	−0.038	3560	+0.0020	—	4018	−0.0150	—	4521	+0.0074	−0.090
3069	—	+0.068	3572	+0.006	—	4026	−0.002	−0.042	4522	−0.0020	+0.031
3073	—	−0.06	3573	—	+0.052	4030	+0.0050	+0.018	4531	−0.0144	+0.155
3083	−0.0052	−0.003	3574	+0.0035	—	4063	+0.0096	—	4538	−0.0113	−0.104
3096	−0.0059	—	3577	−0.0052	−0.062	4064	+0.0046	+0.050	4539	−0.0306	−0.066
3098	−0.0126	−0.092	3579	—	+0.106	4077	−0.0114	—	4541	−0.0072	—
3103	−0.0055	−0.058	3582	−0.1386	−0.498	4088	−0.0023	+0.031	4543	+0.0082	—
3106	+0.0113	—	3591	−0.0946	+0 030	4089	−0.0269	+0.055	4545	+0.0047	−0.167

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Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'
4548	+0.0070	+0.062	5041	+0.0154	−0.039	5564	—	−0.18	5940	−0.0056	+0.098
4549	+0.0068	—	5042	−0.0059	—	5565	—	−0.072	5950	+0.0108	+0.128
4552	—	+0.040	5058	+0.0224	−0.113	5572	−0.0039	−0.016	5961	—	+0.024
4555	−0.0184	+0.208	5069	—	−0.075	5583	—	−0.037	5963	+0.008	—
4558	−0.0058	+0.034	5086	+0.0038	−0.056	5586	−0.0028	—	5975	+0.0024	−0.089
4569	+0.0069	—	5092	+0.0078	−0.107	5594	−0.0015	−0.054	5984	+0.0035	+0.044
4570	+0.0079	—	5093	—	+0.044	5595	—	−0.11	5987	+0.006	—
4574	−0.0041	+0.024	5113	+0.0017	−0.035	5596	—	+0.103	5992	—	+0.010
4577	+0.0054	+0.020	5118	+0.0043	+0.056	5599	—	−0.075	6001	+0.0009	−0.017
4580	−0.0219	—	5119	−0.010	—	5605	+0.0069	—	6018	−0.0042	−0.030
4585	−0.0060	−0.072	5123	+0.0074	—	5615	−0.0041	—	6020	+0.0072	+0.050
4586	—	−0.050	5127	+0.0046	+0.102	5618	—	−0.032	6029	−0.0027	−0.061
4588	+0.0001	—	5137	—	−0.052	5623	—	+0.044	6034	—	+0.052
4592	−0.0129	−0.074	5154	−0.0077	−0.011	5626	+0.0021	—	6043	+0.0037	+0.127
4616	+0.0104	—	5155	−0.009	—	5627	−0.0066	—	6045	+0.0054	—
4618	−0.0019	+0.001	5167	—	+0.066	5628	+0.0017	−0.025	6048	—	+0.113
4619	+0.0035	−0 047	5169	—	+0.012	5632	—	−0.029	6054	+0.0010	—
4620	−0.0036	+0.040	5181	+0.0240	—	5650	−0.0098	—	6058	−0.0047	+0.038
4623	—	−0.027	5197	−0 0068	+0.121	5654	−0.0035	−0.042	6066	−0.0092	+0.304
4628	−0.0050	+0.074	5207	+0.0045	—	5656	−0.0088	+0.053	6067	+0.0052	+0.114
4640	−0.1091	+0.497	5210	—	+0.175	5661	—	−0.305	6089	+0.0033	−0.184
4648	+0.0134	−0.180	5212	+0.0086	−0.042	5662	+0.0069	−0.026	6097	−0.0034	+0.083
4649	—	−0.305	5219	—	−0.06	5663	+0.0051	+0.023	6102	−0.0021	+0.026
4655	−0.0067	+0.087	5225	+0.0076	—	5665	+0.0019	+0.021	6104	−0.0030	+0.265
4666	—	+0.065	5227	—	−0.06	5677	+0.0018	−0.036	6106	−0.0054	+0.044
4683	+0.0070	—	5244	—	−0.07	5679	−0.0015	—	6107	+0.0098	—
4689	—	+0.08	5249	—	+0.062	5682	+0.0015	+0.018	6108	+0.010	—
4694	−0.0203	+0.084	5254	—	−0.057	5683	—	+0.096	6120	+0.005	—
4717	—	−0.01	5256	−0.0101	+0.055	5688	—	+0.036	6122	+0.0008	+0.009
4722	+0.0021	−0.077	5263	−0.0037	—	5692	−0.0112	−0.161	6124	—	+0.185
4729	+0.0086	—	5276	−0.0003	—	5693	+0.0130	—	6128	—	+0.088
4737	+0.0029	+0.025	5283	+0.0047	+0.049	5696	+0.021	—	6137	+0.006	—
4748	+0.0022	+0.028	5298	+0.006	+0.01	5697	−0.008	—	6144	—	−0.048
4758	—	−0.080	5299	+0.006	−0.09	5711	—	−0.041	6149	−0.0169	−0.166
4787	+0.0060	—	5304	—	+0.083	5719	+0.016	—	6150	−0.0126	−0.107
4795	+0.0037	−0.090	5328	−0.0015	—	5727	+0.0056	−0.034	6168	+0.0022	+0.021
4796	+0.0033	−0.057	5334	−0.014	—	5735	−0.008	—	6171	—	−0.06
4798	−0.0033	−0.014	5335	+0.0029	−0.023	5746	+0.0019	+0.063	6188	+0.0057	—
4807	—	−0.294	5345	+0.0043	+0.092	5748	—	−0.028	6199	—	+0.06
4808	−0.0054	−0.037	5349	—	−0.043	5756	−0.0060	+0.352	6229	+0.0027	−0.116
4809	—	−0.092	5355	—	−0.082	5759	—	−0.044	6241	—	−0.075
4821	−0.0043	—	5361	+0.0073	+0.102	5770	+0.0013	−0.039	6245	+0.018	—
4827	−0.0062	+0.042	5366	—	+0.226	5771	+0.0021	−0.051	6246	+0.019	—
4828	−0.0257	+0.036	5373	+0.0089	—	5782	−0.0100	—	6264	+0.0039	−0.026
4837	−0.0073	+0.037	5380	−0.0054	−0.092	5783	+0.0097	+0.076	6270	−0.0034	−0.039
4853	−0.0100	—	5389	—	−0.064	5794	+0.013	—	6276	—	−0.068
4869	—	−0.08	5394	—	+0.058	5797	—	−0.088	6277	+0.0023	−0.002
4875	−0.0166	+0.116	5395	−0.0024	—	5798	+0.0079	—	6279	−0.0021	—
4880	+0.0027	−0.046	5400	−0.0046	−0.032	5801	−0.005	—	6282	—	+0.06
4884	+0.016	—	5408	−0.0069	—	5807	+0.0042	+0.108	6293	—	+0.088
4886	−0.0104	+0.060	5416	—	−0.065	5810	—	−0.08	6294	—	+0.042
4892	−0.0082	−0.043	5419	+0.0064	−0.034	5812	+0.006	—	6309	−0.0041	—
4896	+0.0076	−0.074	5425	+0.0047	+0.054	5815	—	−0.078	6344	—	+0.016
4897	−0.0104	+0.083	5429	−0.0070	—	5817	−0.0014	−0.028	6346	+0.0081	—
4899	+0.0010	−0.028	5436	+0.0009	−0.037	5819	−0.006	+0.06	6351	—	−0.080
4914	−0.0046	—	5450	—	−0.096	5836	+0.0084	+0.038	6352	+0.0091	—
4930	−0.015	+0.16	5451	—	−0.19	5837	+0.006	—	6353	—	−0.100
4932	−0.0120	+0.071	5454	—	+0.096	5849	−0.0073	—	6355	−0.001	—
4934	+0.0071	—	5455	−0.0037	+0.056	5853	−0.0022	+0.044	6361	+0.0076	+0.046
4936	+0.0056	—	5459	—	−0.085	5862	+0.008	—	6362	−0.0005	−0.049
4937	+0.0116	−0.128	5465	—	+0.135	5864	−0.0045	—	6370	+0.0263	+0.253
4947	—	−0.15	5470	−0.0020	—	5876	+0.0037	+0.016	6379	−0.0088	—
4950	−0.0075	—	5478	—	−0.142	5879	−0.0091	−0.045	6383	+0.0069	+0.018
4951	+0.0005	−0.053	5482	−0.0038	−0.043	5880	−0.0032	—	6401	−0.0029	+0.016
4968	+0.0012	−0.007	5486	+0.0110	+0.214	5881	+0.0107	—	6403	+0.0010	—
4975	—	+0.099	5493	—	+0.066	5885	−0.0064	+0.043	6410	—	−0.064
4993	−0.0035	—	5500	—	+0.06	5891	−0.0038	+0.024	6413	−0.0043	−0.011
5011	+0.0021	+0.009	5523	—	−0.045	5907	+0.0043	—	6415	—	+0.041
5012	−0.0043	—	5535	−0.0048	—	5913	+0.0056	—	6431	+0.0021	+0.038
5022	+0.0004	−0.016	5540	+0.007	—	5915	—	+0.043	6434	+0.0048	+0.163
5026	+0.0009	−0.011	5558	−0.0048	−0.052	5925	+0.0002	−0.051	6448	−0.0021	—
5040	+0.0036	−0.016	5561	—	−0.042	5936	−0.0019	—	6456	−0.0084	—

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Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'	Current Number	μ	μ'
6460	−0.0029	—	6919	+0.0052	—	7515	+0.0013	—	8118	−0.0048	−0.016
6463	—	−0.067	6928	−0.0015	—	7533	−0.0025	—	8121	+0.0136	+0.057
6465	−0.0176	−0.220	6933	+0.0053	+0.065	7542	−0.010	—	8127	+0.005	−0.05
6472	+0.0062	−0.041	6938	+0.0052	—	7551	—	−0.045	8148	+0.013	+0.06
6481	−0.0056	+0.029	6943	+0.0026	—	7565	+0.0254	+0.034	8153	+0.011	—
6486	−0.0944	—	6945	+0.0035	—	7566	+0.0056	—	8157	—	+0.044
6487	−0.0947	—	6950	+0.0070	—	7593	−0.0024	—	8162	+0.0094	−0.237
6491	+0.0027	—	6960	+0.007	—	7595	−0.0047	—	8189	+0.021	—
6494	—	+0.034	6975	−0.0019	—	7623	—	−0.063	8202	+0.0030	—
6508	−0.0103	—	6981	+0.0086	—	7658	−0.0023	−0.175	8207	−0.0027	−0.010
6521	+0.0021	—	6986	—	+0.060	7659	−0.0011	+0.029	8213	+0.0077	—
6522	—	−0.070	6992	−0.0049	—	7678	−0.0102	—	8214	—	−0.028
6536	—	−0.069	7011	—	−0.033	7680	—	−0.13	8224	+0.0041	−0.021
6537	—	+0.078	7019	—	+0.065	7681	−0.0152	—	8228	−0.0026	+0.019
6543	—	−0.040	7027	+0.0071	+0.030	7682	+0.0069	+0.034	8232	—	−0.014
6552	−0.0071	—	7055	+0.0078	—	7692	+0.0024	—	8238	−0.0012	−0.001
6558	−0.0059	—	7071	−0.0084	−0.058	7696	−0.0100	—	8250	+0.0054	—
6567	−0.0036	−0.066	7082	+0.008	—	7697	−0.0031	—	8255	—	−0.065
6570	−0.0036	—	7097	−0.0015	—	7710	—	−0.06	8258	+0.0165	+0.054
6571	−0.0006	+0.050	7102	+0.0041	+0.031	7716	−0.0016	—	8268	+0.0047	—
6578	+0.0026	+0.030	7107	−0.010	—	7721	−0.001	−0.02	8272	−0.0032	—
6579	+0.0059	—	7109	+0.0063	+0.054	7732	—	+0.043	8275	−0.007	—
6580	−0.007	−0.06	7113	—	−0.033	7735	+0.0060	—	8297	+0.0081	—
6582	−0.0022	−0.034	7120	—	−0.10	7737	+0.0107	—	8317	—	−0.022
6586	−0.0152	−0.070	7122	+0.0049	—	7738	+0.0060	—	8318	+0.0044	—
6600	−0.0040	—	7123	+0.0099	—	7742	−0.0023	+0.038	8330	+0.010	+0.10
6605	—	−0.043	7132	−0.0038	+0.046	7747	+0.0107	—	8335	—	+0.054
6611	+0.0034	—	7140	+0.0017	+0.001	7754	−0.0045	—	8343	—	−0.07
6612	+0.0062	+0.081	7147	+0.0036	—	7765	+0.0052	—	8349	+0.0022	—
6619	+0.0027	−0.026	7153	+0.013	—	7779	−0.0009	—	8350	+0.0039	—
6620	+0.0035	+0.063	7161	+0.010	—	7790	+0.0043	+0.028	8352	+0.0040	+0.044
6630	−0.0042	−0.010	7164	−0.0024	—	7801	+0.0034	—	8371	−0.0040	—
6635	−0.0019	—	7168	—	−0.104	7802	+0.0008	—	8381	−0.015	—
6636	+0.0026	+0.012	7172	+0.0022	−0.034	7804	−0.0042	−0.034	8385	−0.006	—
6647	—	+0.014	7178	+0.004	—	7808	−0.0070	−0.087	8396	—	−0.036
6654	+0.0059	—	7184	−0.0068	—	7834	+0.0216	+0.081	8406	+0.0062	—
6671	—	−0.025	7198	−0.0064	—	7849	−0.0046	—	8408	−0.0036	—
6690	—	+0.042	7199	+0.019	+0.06	7857	−0.0018	−0.044	8414	−0.0087	—
6699	−0.0046	−0.012	7202	−0.0054	+0.039	7861	−0.0047	—	8428	−0.0055	—
6733	—	−0.021	7208	—	+0.039	7866	−0.0040	—	8430	+0.0046	−0.053
6761	−0.0070	—	7212	−0.0097	−0.090	7868	−0.0011	—	8431	+0.0050	−0.023
6762	−0.0091	−0.103	7227	+0.0026	—	7876	−0.0034	—	8435	−0.0016	—
6769	+0.0019	−0.033	7228	+0.0049	—	7883	+0.0153	+0.053	8436	−0.0014	—
6770	—	+0.023	7237	+0.0073	−0.063	7886	+0.0011	−0.039	8439	−0.0009	−0.011
6772	+0.0081	−0.107	7241	+0.0039	—	7900	−0.0057	−0.036	8446	−0.0080	−0.074
6773	−0.0027	—	7253	+0.0021	—	7905	+0.008	—	8448	+0.0054	−0.060
6782	—	+0.076	7257	+0.019	—	7909	−0.0017	−0.015	8451	−0.0173	—
6784	−0.0017	−0.050	7267	+0.009	+0.06	7912	—	+0.07	8457	+0.010	—
6790	+0.0102	—	7286	+0.013	—	7914	+0.015	+0.08	8463	—	−0.16
6795	+0.0044	—	7288	+0.0037	+0.033	7918	—	+0.09	8464	—	+0.056
6796	−0.0031	+0.016	7294	+0.0067	−0.065	7920	−0.0026	−0.007	8479	+0.0046	—
6808	−0.0044	−0.066	7300	+0.0072	—	7921	+0.0050	—	8491	+0.0100	+0.002
6811	+0.0056	+0.082	7304	+0.0052	—	7927	+0.0045	−0.022	8494	−0.0041	−0.046
6812	+0.0014	—	7321	+0.0026	—	7936	−0.0093	—	8498	−0.015	—
6816	—	+0.178	7324	—	+0.032	7937	−0.0015	−0.133	8501	−0.0068	−0.028
6833	+0.0029	—	7326	−0.0028	—	7944	+0.0074	+0.040	8509	−0.0066	—
6835	+0.0065	−0.028	7346	+0.0144	+0.122	7946	−0.0021	+0.029	8513	−0.0042	—
6847	+0.0008	—	7351	+0.0075	+0.034	7950	+0.0111	+0.166	8517	−0.0082	+0.051
6858	−0.0094	—	7388	−0.0036	—	7952	+0.0174	—	8524	+0.005	+0.06
6861	−0.0081	—	7422	−0.0033	−0.026	7962	—	+0.108	8532	+0.0034	+0.025
6869	—	−0.053	7433	—	+0.063	7970	−0.0024	−0.065	8535	—	−0.028
6874	+0.0046	−0.076	7444	+0.0050	—	7991	+0.0012	—	8540	−0.0052	—
6875	+0.0074	—	7455	—	−0.001	7994	+0.0082	—	8544	−0.0054	−0.019
6876	+0.0096	—	7458	−0.0048	−0.012	8007	−0.0057	—	8551	+0.0098	−0.063
6881	+0.0063	—	7460	−0.0040	—	8023	−0.0031	+0.060	8554	+0.0033	−0.012
6883	+0.0032	—	7464	−0.0560	−0.314	8024	−0.0019	−0.016	8555	−0.0030	−0.036
6885	−0.0019	—	7489	+0.0035	+0.015	8039	−0.0027	—	8558	−0.0014	—
6888	—	+0.019	7495	—	−0.104	8049	−0.0043	—	8562	−0.0027	−0.014
6891	−0.0046	—	7499	+0.012	—	8063	−0.0017	—	8574	—	+0.12
6896	+0.0008	−0.066	7500	+0.0140	+0.069	8070	—	−0.023	8579	−0.0095	—
6909	+0.0036	+0.020	7504	−0.0034	—	8094	+0.0014	—	8589	−0.006	—
6910	−0.0014	−0.044	7507	−0.0028	−0.008	8096	+0.002	−0.024	8599	+0.0009	−0.074

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TABULAR VALUES OF THE THIRD TERM

	In Right Ascension						In Declination					
	+50°	+51°	+52°	+53°	+54°	+55°	+50°	+51°	+52°	+53°	+54°	+55°
0h 0m	+0.s0302	+0.s0317	+0.s0333	+0.s0351	+0.s0370	+0.s0392	−0.″167	−0.″167	−0.″167	−0.″167	−0.″167	−0.″167
20	+0.0313	+0.0331	+0.0350	+0.0370	+0.0392	+0.0415	−0.189	−0.190	−0.191	−0.192	−0.193	−0.194
40	+0.0317	+0.0334	+0.0353	+0.0375	+0.0399	+0.0426	−0.213	−0.215	−0.217	−0.219	−0.223	−0.228
1 0	+0.0307	+0.0326	+0.0347	+0.0369	+0.0393	+0.0420	−0.237	−0.239	−0.242	−0.245	−0.248	−0.250
20	+0.0286	+0.0305	+0.0325	+0.0347	+0.0370	+0.0394	−0.258	−0.263	−0.268	−0.272	−0.276	−0.280
40	+0.0253	+0.0270	+0.0289	+0.0309	+0.0331	+0.0354	−0.276	−0.281	−0.287	−0.293	−0.299	−0.305
2 0	+0.0206	+0.0221	+0.0238	+0.0256	+0.0275	+0.0294	−0.290	−0.296	−0.303	−0.310	−0.318	−0.326
20	+0.0150	+0.0161	+0.0174	+0.0189	+0.0204	+0.0220	−0.300	−0.307	−0.315	−0.323	−0.331	−0.339
40	+0.0083	+0.0091	+0.0099	+0.0108	+0.0119	+0.0132	−0.306	−0.313	−0.321	−0.330	−0.339	−0.349
3 0	+0.0010	+0.0013	+0.0017	+0.0022	+0.0027	+0.0033	−0.303	−0.311	−0.320	−0.329	−0.338	−0.348
20	−0.0068	−0.0070	−0.0071	−0.0072	−0.0074	−0.0075	−0.294	−0.301	−0.310	−0.320	−0.330	−0.341
40	−0.0147	−0.0154	−0.0161	−0.0169	−0.0176	−0.0184	−0.277	−0.285	−0.293	−0.302	−0.312	−0.322
4 0	−0.0223	−0.0235	−0.0248	−0.0262	−0.0276	−0.0292	−0.254	−0.261	−0.269	−0.278	−0.287	−0.296
20	−0.0297	−0.0313	−0.0331	−0.0350	−0.0371	−0.0393	−0.222	−0.229	−0.236	−0.244	−0.252	−0.261
40	−0.0360	−0.0381	−0.0403	−0.0428	−0.0454	−0.0482	−0.185	−0.191	−0.197	−0.203	−0.210	−0.217
5 0	−0.0412	−0.0436	−0.0462	−0.0491	−0.0522	−0.0555	−0.142	−0.147	−0.152	−0.157	−0.162	−0.167
20	−0.0453	−0.0480	−0.0509	−0.0541	−0.0575	−0.0612	−0.096	−0.099	−0.102	−0.105	−0.109	−0.113
40	−0.0477	−0.0505	−0.0535	−0.0569	−0.0606	−0.0645	−0.045	−0.046	−0.047	−0.049	−0.051	−0.053
6 0	−0.0483	−0.0512	−0.0544	−0.0578	−0.0615	−0.0653	+0.007	+0.007	+0.007	+0.007	+0.008	+0.008
20	−0.0474	−0.0502	−0.0532	−0.0566	−0.0603	−0.0642	+0.059	+0.060	+0.062	+0.065	+0.067	+0.069
40	−0.0448	−0.0475	−0.0504	−0.0535	−0.0569	−0.0605	+0.108	+0.111	+0.115	+0.119	+0.123	+0.127
7 0	−0.0406	−0.0430	−0.0456	−0.0484	−0.0515	−0.0548	+0.155	+0.160	+0.166	+0.171	+0.176	+0.181
20	−0.0353	−0.0373	−0.0395	−0.0419	−0.0444	−0.0470	+0.197	+0.203	+0.209	+0.216	+0.223	+0.230
40	−0.0286	−0.0302	−0.0319	−0.0338	−0.0358	−0.0380	+0.234	+0.241	+0.248	+0.256	+0.265	+0.274
8 0	−0.0214	−0.0225	−0.0237	−0.0250	−0.0263	−0.0278	+0.264	+0.272	+0.280	+0.289	+0.298	+0.307
20	−0.0136	−0.0141	−0.0147	−0.0154	−0.0161	−0.0170	+0.286	+0.295	+0.304	+0.313	+0.323	+0.333
40	−0.0055	−0.0056	−0.0057	−0.0057	−0.0057	−0.0057	+0.303	+0.311	+0.319	+0.329	+0.340	+0.351
9 0	+0.0023	+0.0027	+0.0032	+0.0037	+0.0043	+0.0049	+0.311	+0.319	+0.328	+0.337	+0.347	+0.357
20	+0.0096	+0.0105	+0.0114	+0.0125	+0.0136	+0.0149	+0.312	+0.319	+0.327	+0.336	+0.346	+0.356
40	+0.0162	+0.0174	+0.0187	+0.0202	+0.0219	+0.0239	+0.306	+0.313	+0.321	+0.329	+0.337	+0.345
10 0	+0.0218	+0.0234	+0.0251	+0.0270	+0.0290	+0.0311	+0.294	+0.301	+0.308	+0.315	+0.322	+0.329
20	+0.0264	+0.0281	+0.0300	+0.0321	+0.0344	+0.0369	+0.279	+0.284	+0.290	+0.296	+0.302	+0.308
40	+0.0296	+0.0315	+0.0335	+0.0358	+0.0382	+0.0408	+0.260	+0.264	+0.268	+0.273	+0.278	+0.283
11 0	+0.0315	+0.0335	+0.0356	+0.0378	+0.0402	+0.0427	+0.238	+0.241	+0.244	+0.247	+0.251	+0.255
20	+0.0323	+0.0341	+0.0361	+0.0383	+0.0406	+0.0431	+0.215	+0.217	+0.219	+0.221	+0.223	+0.225
40	+0.0317	+0.0334	+0.0353	+0.0373	+0.0395	+0.0419	+0.191	+0.191	+0.192	+0.193	+0.194	+0.194
12 0	+0.0304	+0.0319	+0.0336	+0.0354	+0.0374	+0.0395	+0.167	+0.167	+0.167	+0.167	+0.167	+0.167

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IN PRECESSION FOR ZONE STARS. (Table XIII.)

	In Right Ascension						In Declination					
	+50°	+51°	+52°	+53°	+54°	+55°	+50°	+51°	+52°	+53°	+54°	+55°
12h 0m	+0.s0304	+0.s0319	+0.s0336	+0.s0354	+0.s0374	+0.s0395	+0.″167	+0.″167	+0.″167	+0.″167	+0.″167	+0.″167
20	+0.0281	+0.0293	+0.0307	+0.0322	+0.0339	+0.0357	+0.144	+0.144	+0.143	+0.142	+0.141	+0.141
40	+0.0251	+0.0262	+0.0274	+0.0286	+0.0298	+0.0310	+0.125	+0.124	+0.122	+0.121	+0.119	+0.118
13 0	+0.0219	+0.0225	+0.0233	+0.0242	+0.0251	+0.0261	+0.107	+0.106	+0.104	+0.102	+0.100	+0.098
20	+0.0182	+0.0186	+0.0191	+0.0196	+0.0202	+0.0208	+0.092	+0.090	+0.088	+0.086	+0.084	+0.082
40	+0.0147	+0.0149	+0.0151	+0.0153	+0.0155	+0.0157	+0.080	+0.078	+0.075	+0.073	+0.071	+0.070
14 0	+0.0112	+0.0111	+0.0110	+0.0110	+0.0109	+0.0109	+0.068	+0.067	+0.065	+0.063	+0.060	+0.058
20	+0.0079	+0.0078	+0.0076	+0.0073	+0.0070	+0.0065	+0.060	+0.059	+0.057	+0.055	+0.053	+0.051
40	+0.0050	+0.0047	+0.0044	+0.0040	+0.0035	+0.0029	+0.054	+0.052	+0.051	+0.050	+0.049	+0.048
15 0	+0.0028	+0.0024	+0.0019	+0.0014	+0.0008	+0.0002	+0.049	+0.048	+0.046	+0.045	+0.044	+0.043
20	+0.0008	+0.0004	−0.0001	−0.0006	−0.0011	−0.0016	+0.044	+0.043	+0.042	+0.042	+0.042	+0.042
40	−0.0005	−0.0010	−0.0015	−0.0020	−0.0026	−0.0032	+0.039	+0.039	+0.039	+0.039	+0.038	+0.038
16 0	−0.0015	−0.0019	−0.0024	−0.0029	−0.0034	−0.0039	+0.036	+0.036	+0.035	+0.036	+0.038	+0.038
20	−0.0023	−0.0026	−0.0029	−0.0034	−0.0039	−0.0045	+0.032	+0.032	+0.032	+0.032	+0.032	+0.032
40	−0.0024	−0.0027	−0.0031	−0.0035	−0.0039	−0.0044	+0.027	+0.027	+0.027	+0.028	+0.028	+0.028
17 0	−0.0026	−0.0028	−0.0031	−0.0033	−0.0036	−0.0039	+0.022	+0.022	+0.022	+0.022	+0.022	+0.022
20	−0.0027	−0.0029	−0.0031	−0.0033	−0.0035	−0.0037	+0.016	+0.016	+0.017	+0.017	+0.017	+0.017
40	−0.0027	−0.0029	−0.0031	−0.0033	−0.0034	−0.0036	+0.009	+0.009	+0.009	+0.010	+0.011	+0.011
18 0	−0.0025	−0.0026	−0.0028	−0.0029	−0.0031	−0.0032	+0.003	+0.003	+0.003	+0.003	+0.004	+0.004
20	−0.0024	−0.0026	−0.0028	−0.0030	−0.0031	−0.0032	−0.004	−0.003	−0.002	−0.002	−0.003	−0.003
40	−0.0024	−0.0026	−0.0028	−0.0030	−0.0031	−0.0032	−0.010	−0.010	−0.009	−0.009	−0.009	−0.009
19 0	−0.0022	−0.0023	−0.0025	−0.0028	−0.0031	−0.0034	−0.016	−0.016	−0.016	−0.016	−0.016	−0.016
20	−0.0019	−0.0022	−0.0025	−0.0029	−0.0033	−0.0037	−0.021	−0.021	−0.022	−0.022	−0.022	−0.022
40	−0.0014	−0.0017	−0.0021	−0.0025	−0.0030	−0.0035	−0.026	−0.026	−0.026	−0.026	−0.025	−0.025
20 0	−0.0008	−0.0011	−0.0015	−0.0020	−0.0025	−0.0030	−0.032	−0.031	−0.030	−0.030	−0.030	−0.030
20	+0.0004	0.0000	−0.0005	−0.0010	−0.0015	−0.0020	−0.036	−0.035	−0.034	−0.033	−0.032	−0.032
40	+0.0017	+0.0013	+0.0009	+0.0005	0.0000	−0.0004	−0.041	−0.040	−0.039	−0.039	−0.038	−0.038
21 0	+0.0037	+0.0033	+0.0029	+0.0024	+0.0019	+0.0013	−0.047	−0.045	−0.044	−0.042	−0.041	−0.041
20	+0.0059	+0.0057	+0.0054	+0.0050	+0.0046	+0.0041	−0.052	−0.050	−0.049	−0.047	−0.046	−0.045
40	+0.0086	+0.0086	+0.0085	+0.0082	+0.0079	+0.0076	−0.058	−0.056	−0.055	−0.053	−0.051	−0.050
22 0	+0.0118	+0.0118	+0.0119	+0.0119	+0.0118	+0.0118	−0.068	−0.066	−0.064	−0.062	−0.060	−0.058
20	+0.0152	+0.0154	+0.0156	+0.0159	+0.0162	+0.0165	−0.079	−0.077	−0.074	−0.072	−0.070	−0.068
40	+0.0186	+0.0191	+0.0197	+0.0202	+0.0208	+0.0214	−0.092	−0.090	−0.088	−0.086	−0.084	−0.082
23 0	+0.0221	+0.0228	+0.0236	+0.0245	+0.0254	+0.0264	−0.108	−0.106	−0.104	−0.102	−0.101	−0.100
20	+0.0253	+0.0264	+0.0275	+0.0287	+0.0300	+0.0313	−0.125	−0.124	−0.123	−0.121	−0.119	−0.118
40	+0.0283	+0.0295	+0.0309	+0.0324	+0.0341	+0.0357	−0.145	−0.145	−0.144	−0.143	−0.142	−0.142
24 0	+0.0302	+0.0317	+0.0333	+0.0351	+0.0370	+0.0392	−0.167	−0.167	−0.167	−0.167	−0.167	−0.167

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1	8.4	$0^h\ 0^m\ 7^s.45$	+3ˢ.0731	+0ˢ.0396	+ 51°34′16″.6	+20″.054	−0″.009	77.9	594 595	51°3784
2	9.2	0 10.14	3.0736	0.0442	54 45 37.8	20.054	0.009	77.8	589 591	54 3112
3	8.4	0 20.07	3.0749	0.0428	53 48 10.2	20.054	0.009	74.9	357 358	53 3289
4	9.0	0 21.54	3.0748	0.0390	51 4 2.9	20.054	0 009	78.9	710 711	50 4239
5	9.0	0 24.17	3.0755	0.0432	54 1 50.1	20.054	0.009	81.5	5 obs. [1]	53 3290
6	8.5	0 0 31.80	+3.0764	+0.0421	+ 53 16 44.7	+20.054	−0.010	78.9	712 713 714	53 3291
7	9.0	0 32.01	3.0761	0.0393	51 18 10.3	20.054	0.010	76.1	5 obs. [2]	51 3785
8	8.8	0 32.84	3.0764	0.0409	52 27 53.8	20.054	0.010	74.4	262 263 359 360	52 3600
9	8.9	0 33.72	3.0768	0.0434	54 12 1.4	20.054	0.010	78.9	708 709	54 3113
10	9.3	0 34.16	3.0768	0.0434	54 10 51.4	20.054	0.010	78.9	708 709	[54 3114]
11	8.9	0 0 43.63	+3.0781	+0.0433	+ 54 3 55.0	+20.054	−0 010	77.9	604 605	53 3292
12	8.8	0 55.42	3.0799	0.0448	54 57 32.2	20.054	0.010	75.9	444 445	54 3115
13	8.8	1 4.44	3.0802	0.0403	51 57 47.8	20.054	0.011	78.9	706 707	51 1
14	8.2	1 8.40	3.0810	0.0416	52 49 50.4	20.054	0.011	81.9	595 742 746	52 2
15	7.3	1 9.24	3.0809	0.0405	52 4 38.8	20.054	0.011	72.6	141 198 199	51 2
16	8.7	0 1 15.26	+3.0817	+0.0410	+ 52 24 35.0	+20.054	−0.011	77.9	597 598	52 3
17	7.6	1 20.16	3.0833	0.0448	54 52 50.8	20.054	0.011	75.9	444 445	54 1
18	9.0	1 21.07	3.0818	0.0384	50 30 39.5	20.054	0.011	70.9	1 2 5 7	50 2
19	8.2	1 34.99	3.0845	0.0421	53 6 8.4	20.054	0.012	83.7	5 obs. [3]	52 6
20	9.1	1 39.60	3.0838	0.0378	49 59 18.4	20.054	0.012	74.9	359 360	49 2
21	9.0	0 1 39.63	+3.0839	+0.0382	+ 50 15 54.9	+20.054	−0.012	78.9	701 712 713	[50 3]
22	9.0	1 42.23	3.0853	0.0417	52 50 17.1	20.054	0.012	83.9	742 746	52 7
23	8.8	1 45.33	3.0846	0.0382	50 17 26.6	20.054	0.012	78.4	606 712 713	50 4
24	9.0	1 53.47	3.0874	0.0432	54 0 20.0	20.054	0.012	74.9	357 358	53 3
25	7.7	2 0.08	3.0870	0.0401	51 38 23.2	20.054	0.013	73.4	198 199 262 263	51 4
26	7.5	0 2 4.97	+3.0881	+0.0414	+ 52 33 30.6	+20.053	−0.013	74.9	354 355 356	52 8
27	8.8	2 4.98	3.0871	0.0388	50 42 27.8	20.053	0.013	78.9	708 709	50 9
28	8.2	2 12.93	3.0894	0.0423	53 7 5.1	20.053	0.013	79.9 77.9	445 706 707 907α	53 6
29	8.6	2 29.91	3.0932	0.0456	55 10 47.7	20.053	0.014	78.9	716 718 719 720	55 7
30	8.8	2 42.04	3.0911	0.0382	50 8 0.4	20.053	0.014	70.9	1 5 7	50 10
31	8.9	0 2 57.88	+3.0938	+0.0399	+ 51 18 52.4	+20.052	−0.014	78.4	604 605 706 707	51 6
32	9.0	3 2.78	3.0964	0.0433	53 39 22.2	20.052	0.015	74.9	357 358	53 9
33	7.9	3 13.86	3.0958	0.0400	51 19 59.2	20.052	0.015	74.9	6 obs. [4]	51 9
34	9.2	3 18.96	3.0953	0.0383	50 2 59.4	20.052	0.015	71.9	140 141	49 13
35	8.4	3 19.76	3.0978	0.0421	52 49 55.2	20.052	0.015	75.2	354 355 356 445	52 11
36	8.7	0 3 20.90	+3.0967	+0.0400	+ 51 20 49.7	+20.052	−0.015	76.7	5 obs. [5]	51 10
37	8.1	3 22.32	3.0963	0.0392	50 43 39.0	20.052	0.016	73.6	2 359 360	50 12
38	8.6	3 36.18	3.0974	0.0384	50 6 39.9	20.052	0.016	75.9	6 obs. [6]	50 13
39	8.9	3 45.51	3.0985	0.0385	50 11 20.1	20.052	0.016	75.6	7 597 598	50 14
40	7.6	3 45.76	3.0999	0.0404	51 33 35.4	20.052	0.016	77.9	604 605	51 12
41	7.8	0 3 58.37	+3.1011	+0.0400	+ 51 13 1.3	+20.051	−0.016	78.5	5 obs. [7]	51 13
42	8.1	4 3.36	3.1021	0.0406	51 37 18.3	20.051	0.017	77.9	606 607	51 14
43	8.9	4 10.34	3.1060	0.0444	54 11 45.4	20.051	0.017	74.9	357 358	54 7
44	8.0	4 14.58	3.1071	0.0452	54 38 50.0	20.051	0.017	75.9	444 445	54 8
45	8.4	4 17.20	3.1025	0.0390	50 28 54.2	20.051	0.017	77.6	504 601 602	50 16
46	8.8	0 4 26.78	+3.1052	+0.0408	+ 51 44 51.7	+20.051	−0.017	72.9	198 199	51 16
47	8.8	4 28.42	3.1043	0.0396	50 53 37.3	20.051	0.017	74.9	359 360	50 17
48	8.0	4 40.76	3.1081	0.0423	52 43 13.5	20.050	0.018	74.9	354 355 356	52 15
49	8.8	4 49.99	3.1060	0.0387	50 8 51.2	20.050	0.018	70.9	1 2 5	50 19
50	9.1	4 53.28	3.1080	0.0404	51 22 50.7	20.050	0.018	78.4	262 594 595 761	51 18

[1] Z. 601 602 738 740 741 [2] Z. 354 355 356 606 607 [3] Z. 711 738 761 905 912 [4] Z. 198 199 262 263 606 615
[5] Z. 262 263 606 706 707 [6] Z. 1 5 504 701 708 709 [7] Z. 594 595 709 710 711

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
51	7.8	$0^h\ 5^m\ 5^s.70$	+3ˢ.1151	+0ˢ.0464	+ 55°15′ 57″.7	+20″.049	−0″.019	78.6	615 713 714	55°15
52	8.1	5 9.14	3.1131	0.0438	53 38 25.2	20.049	0.019	74.9	357 358	53 16
53	9.1	5 13.96	3.1128	0.0428	53 0 14.8	20.049	0.019	77.9	597 598	52 16
54	9.0	5 18.20	3.1137	0.0432	53 14 37.2	20.049	0.019	77.9	604 605	53 18
55	9.2	5 19.34	3.1096	0.0390	50 17 37.2	20.049	0.019	71.9	140 141	50 26
56	8.8	0 5 21.37	+3.1105	+0.0397	+ 50 47 2.9	+20.049	−0.019	79.9	601 602 761	50 27
57	8.4	5 22.40	3.1097	0.0387	50 3 24.2	20.049	0.019	74.9	359 360	49 24
58	8.8	5 32.06	3.1172	0.0450	54 19 35.8	20.048	0.020	76.9	444 445 592 593	54 10
59	6.8	5 34.85	3.1153	0.0428	52 55 44.1	20.048	0.020	74.9	354 355 356	52 19
60	8.6	5 37.98	3.1182	0.0452	54 24 38.6	20.048	0.020	77.9	606 607	54 11
61	8.8	0 6 6.04	+3.1220	+0.0453	+ 54 24 45.1	+20.047	−0.021	77.9	594 595	54 13
62	9.0	6 14.70	3.1183	0.0411	51 41 2.0	20.047	0.021	72.9	198 199	51 21
63	8.6	6 16.27	3.1178	0.0404	51 14 31.0	20.047	0.021	73.9	262 263	51 22
64	8.0	6 19.35	3.1174	0.0399	50 47 20.2	20.047	0.021	74.9	7 obs. [1]	50 28
65	8.0	6 25.88	3.1261	0.0466	55 9 48.8	20.046	0.022	78.9	713 714	55 21
66	9.2	0 6 31.36	+3.1242	+0.0443	+ 53 46 8.2	+20.046	−0.022	74.9	357 358 359 360	53 22
67	7.9	6 41.64	3.1207	0.0405	51 8 14.5	20.046	0.022	74.9	354 355 356	51 23
68	8.6	7 10.60	3.1257	0.0418	51 57 48.0	20.044	0.023	73.9	262 263	51 25
69	8.6	7 11.61	3.1295	0.0445	53 46 10.5	20.044	0.023	77.2	445 604 605	53 24
70	9.8	7 22.53	3.1251	0.0402	50 51 1.1	20.044	0.023	83.9	742 746	50 31
71	8.8	0 7 29.96	+3.1274	+0.0413	+ 51 36 36.0	+20.044	−0.024	72.9	198 199	51 26
72	7.6	7 38.79	3.1350	0.0460	54 35 16.9	20.043	0.024	78.9	701 706 707	54 16
73	9.0	7 41.97	3.1305	0.0425	52 22 0.6	20.043	0.024	74.9	359 360	52 23
74	8.6	7 42.63	3.1316	0.0432	52 52 20.8	20.043	0.024	81.6	504 744 745	52 24
75	8.0	7 44.59	3.1304	0.0422	52 9 56.2	20.043	0.024	78.0	608 615	52 25
76	9.0	0 7 57.17	+3.1340	+0.0436	+ 53 4 38.2	+20.042	−0.025	84.0	742 761	52 27
77	7.9	8 0.38	3.1345	0.0437	53 7 56.5	20.042	0.025	74.9	357 358	53 25
78	8.0	8 6.87	3.1305	0.0405	50 55 20.5	20.042	0.025	71.6	6 obs. [2]	50 35
79	9.0	8 11.61	3.1310	0.0405	50 54 6.6	20.041	0.025	73.9	2 354 355 356	50 36
80	8.4	8 13.92	3.1390	0.0456	54 17 5.1	20.041	0.025	84.9	746 761 908 912	54 17
81	9.1	0 8 16.61	+3.1405	+0.0464	+ 54 45 0.3	+20.041	−0.025	77.9	594 595	54 18
82	8.8	8 16.83	3.1353	0.0429	52 33 22.4	20.041	0.025	83.9	744 745	52 28
83	...[3]	8 24.92	3.1424	0.0469	55 0 38.9	20.041	0.026	77.9	606 607	54 19
84	7.2	8 26.12	3.1384	0.0442	53 23 1.0	20.041	0.026	77.9	604 605	53 27
85	7.9	8 28.78	3.1354	0.0420	51 56 40.3	20.040	0.026	73.9	262 263	51 30
86	8.2	0 8 36.07	+3.1385	+0.0435	+ 52 52 23.8	+20.040	−0.026	77.9	601 602	52 30
87	9.1	8 45.96	3.1435	0.0458	54 19 58.6	20.040	0.026	74.9	357 358	54 21
88	8.9	8 55.34	3.1373	0.0413	51 20 28.1	20.039	0.027	74.1	5 obs. [4]	51 31
89	9.1	9 33.36	3.1524	0.0475	55 10 24.2	20.037	0.028	77.9	592 593	55 36
90	6.9	9 48.53	3.1488	0.0444	53 15 3.1	20.036	0.028	75.2	357 358 445	53 30
91	8.4	0 10 3.95	+3.1529	+0.0456	+ 53 57 55.6	+20.035	−0.029	74.9	359 360	53 31
92	9.2	10 4.33	3.1530	0.0456	53 58 1.2	20.035	0.029	74.9	359 360	
93	9.9	10 17.26	3.1484	0.0422	51 45 12.7	20.034	0.029	72.9	198 199	51 36
94	8.8	10 22.12	3.1494	0.0424	51 53 53.1	20.034	0.029	73.9	262 263	51 37
95	7.7	10 22.99	3.1513	0.0434	52 32 55.7	20.033	0.030	74.9	354 355 356α	52 33
96	7.2	0 10 37.42	+3.1584	+0.0463	54 17 9.7	+20.032	−0.030	75.2	357 358 445	54 25
97	8.8	10 56.89	3.1560	0.0438	52 41 29.8	20.031	0.031	74.9	359 360	52 35
98	7.1	11 6.06	3.1515	0.0409	50 44 19.3	20.031	0.031	71.2	6 obs. [5]	50 46
99	8.7	11 6.34	3.1529	0.0416	51 15 15.0	20.031	0.031	73.9	262 263	51 38
100	8.4	11 6.68	3.1583	0.0443	53 1 0.2	20.030	0.031	76.9	504 506	52 38

[1] Z. 1 2 7 504 605 615 701 [2] Z. 1 7 140 141 142 143 [3] Dupl. $9^m.1$ & $9^m.1$ med. [4] Z. 198 199 354 355 356
[5] Z. 2 4 5 7 142 143

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
101	8.6	$0^h\,11^m\,14^s.08$	+3ˢ.1514	+0ˢ.0404	+ 50° 22′ 48″.0	+20″.030	−0″.031	71.9	140 141	50° 47
102	9.1	11 24.98	3.1610	0.0446	53 8 0.9	20.029	0.032	77.2	445 597 598	53 34
103	9.1	11 29.59	3.1670	0.0473	54 44 9.4	20.029	0.032	74.9	357 358	54 26
104	8.8	11 33.29	3.1692	0.0481	55 11 26.0	20.029	0.032	82.4	593 744 745 746	55 42
105	8.6	11 34.00	3.1678	0.0474	54 47 34.8	20.029	0.032	80.9	594 742	54 27
106	8.0	0 11 34.28	+3.1578	+0.0424	+ 51 43 11.2	+20.029	−0.032	72.9	198 199	51 39
107	7.9	11 58.38	3.1624	0.0433	52 13 56.8	20.027	0.033	74.9	359 360	52 39
108	9.4	11 58.69	3.1690	0.0464	54 11 5.0	20.027	0.033	77.9	601 602	54 32
109	7.0	12 17.80	3.1623	0.0422	51 28 44.4	20.025	0.034	73.9	262 263	51 40
110	7.6	12 20.88	3.1580	0.0401	50 0 1.1	20.025	0.034	73.3	5 obs. [1]	49 43
111	9.0	0 12 23.74	+3.1668	+0.0440	+ 52 36 15.2	+20.025	−0.034	76.9	504 506	52 40
112	9.0	12 38.07	3.1676	0.0436	52 19 35.4	20.024	0.034	74.9	359 360	52 41
113	8.3	12 55.34	3.1796	0.0481	54 56 55.2	20.022	0.035	76.4	357 358 592 593	54 35
114	8.7	12 58.63 [2]	3.1802	0.0481	54 58 40.8	20.022	0.035	79.9 77.2	445 592δ 593 905α	54 36
115	8.4	13 10.88	3.1640	0.0403	50 3 22.0	20.021	0.035	71.1	5 obs. [3]	49 49
*116	8.0	0 13 11.48	+3.1822	+0.0483	+ 55 1 10.8	+20.021	−0.035	77.9	594 595	54 37
117	8.8	13 21.90	3.1691	0.0420	51 11 48.5	20.020	0.036	73.6	198 262 263	51 44
118	8.6	13 32.06	3.1755	0.0443	52 36 11.6	20.019	0.036	74.9	354 355 356	52 44
119	8.6	13 35.68	3.1794	0.0457	53 30 26.2	20.019	0.036	74.9	357 358	53 42
120	8.8	13 38.77	3.1670	0.0403	49 58 37.6	20.019	0.036	71.6	1 140 141	49 52
121	8.7	0 13 51.14	+3.1735	+0.0425	+ 51 25 24.6	+20.018	−0.037	75.9	142 594 595	51 47
122	9.4	14 2.88	3.1787	0.0441	52 25 44.2	20.017	0.037	75.6	359 360 506	52 46
123	9.3	14 25.28	3.1828	0.0447	52 44 37.5	20.014	0.038	77.2	445 592 593	52 47
124	9.0	14 40.40	3.1836	0.0443	52 27 36.8	20.013	0.038	79.4	6 obs. [4]	52 49
125	9.1	14 40.99	3.1835	0.0442	52 25 36.3	20.013	0.038	82.2	504 742 744 745	52 50
126	8.4	0 15 14.83	+3.1893	+0.0450	+ 52 47 14.4	+20.010	−0.040	74.9	359 360	52 51
127	8.0	15 37.23	3.1926	0.0452	52 54 28.3	20.008	0.040	76.1	5 obs. [5]	52 52
128	8.4	15 45.18	3.1878	0.0431	51 31 32.3	20.007	0.041	72.9	5 obs. [6]	51 54
129	8.6	15 51.08	3.1975	0.0464	53 35 27.1	20.006	0.041	79.0	9 obs. [7]	53 52
130	9.1	15 52.73	3.1924	0.0445	52 23 33.9	20.006	0.041	76.6	445 504 506	52 53
131	8.8	0 15 59.29	+3.1955	+0.0453	+ 52 54 43.8	+20.006	−0.041	77.9	592 593	52 54
132	7.4	16 4.19	3.2009	0.0471	53 57 7.8	20.005	0.041	77.9	601 602	53 53
133	8.8	16 5.11	3.1944	0.0447	52 29 54.6	20.005	0.041	74.9	359 361	52 55
134	8.3	16 8.03	3.2000	0.0466	53 38 13.5	20.004	0.041	79.5	5 obs. [8]	53 54
135	9.0	16 11.27	3.2041	0.0480	54 24 26.9	20.004	0.042	77.9	594 595	54 44
136	8.2	0 16 15.14	+3.2007	+0.0466	+ 53 35 50.9	+20.004	−0.042	80.3	9 obs. [9]	53 56
137	9.2	16 15.46	3.2044	0.0479	54 21 22.2	20.004	0.042	77.9	606 607	54 45
138	9.1	16 21.07	3.1920	0.0431	51 28 44.1	20.003	0.042	78.9	706 707	51 58
139	9.1	16 28.87	3.2100	0.0493	55 5 59.6	20.002	0.042	78.0	613 614	54 48
140	8.2	16 30.10	3.1913	0.0425	51 4 29.9	20.002	0.042	72.2	6 obs. [10]	50 60
141	8.6	0 16 31.31	+3.2041	+0.0471	+ 53 52 0.7	+20.002	−0.042	84.0	761	53 59
142	8.4	16 33.12	3.2032	0.0467	53 37 44.2	20.002	0.042	79.1	5 obs. [11]	53 60
143	8.4	16 34.82	3.1895	0.0417	50 30 4.0	20.002	0.042	71.9	140 141	50 61
144	8.8	16 38.71	3.2113	0.0494	55 6 33.0	20.001	0.042	78.0	611 613 614	54 49
145	8.4	16 38.86	3.1965	0.0440	52 1 5.9	20.001	0.043	73.9	262 263	51 59
146	8.4	0 16 54.20	+3.2114	+0.0487	+ 54 41 47.0	+20.000	−0.043	77.9	597 598	54 50
147	8.6	16 57.28	3.2070	0.0469	53 44 25.7	19.999	0.043	74.9	357 358	53 61
148	8.6	17 7.96	3.2097	0.0474	53 59 44.0	19.998	0.044	77.9	594 595	53 63
149	9.0	17 9.13	3.2072	0.0466	53 28 2.5	19.998	0.044	77.2	445 592 593	53 62
150	8.8	17 9.97	3.1956	0.0425	50 57 18.8	19.998	0.044	74.9	359 361	50 63

[1] Z. 1 7 354 355 356 [2] 58ˢ.57 [59ˢ.12] 58ˢ.56 58ˢ.75 [3] Z. 2 4 5 7 143 [4] Z. 354 355 356 742 744 745
[5] Z. 354 355 356 592 593 [6] Z. 142 143 198 262 263 [7] Z. 357 358 598 704 705 708 709 744 745
[8] Z. 597 615 708 709 746 [9] Z. 598 608 704 705 708 709 742 744 745 [10] Z. 1 2 4 5 7 710
[11] Z. 601 602 608 615 746

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
151	9.0	0h 17m 15.80	+3.2032	+0.0449	+ 52° 28′ 8.4	+19.997	−0.044	74.9	354 355 356	52° 58
152	8.8	17 24.18	3.1940	0.0414	50 12 2.4	19.996	0.044	76.9	504 506	50 64
153	7.6	17 29.33	3.2081	0.0461	53 7 50.7	19.996	0.044	77.2	445 601 602	53 64
154	6.1	17 32.13	3.1999	0.0431	51 19 37.3	19.996	0.044	72.6	137 198 201	51 62
155	8.4	17 34.68	3.2059	0.0451	52 32 21.0	19.995	0.044	77.9	604 605	52 59
156	8.6	0 17 36.31	+3.2182	+0.0492	+ 54 53 15.2	+19.995	−0.044	77.9	606 607	54 52
157	8.7	17 37.60	3.2120	0.0470	53 40 52.6	19.995	0.045	78.0	611 613	53 65
158	9.3	17 44.25	3.2076	0.0453	52 38 36.2	19.994	0.045	77.9	597 598	52 60
159	9.5	17 52.26	3.2052	0.0441	51 55 24.0	19.993	0.045	73.9	262 263	51 64
160	9.2	18 6.12	3.2034	0.0430	51 11 53.9	19.992	0.046	77.9	592 593	51 65
161	9.9	0 18 11.79	+3.2034	+0.0428	+ 51 3 7.3	+19.991	−0.046	74.9	359 361	50 66
162	8.4	18 12.31	3.2140	0.0463	53 10 52.4	19.991	0.046	77.9	594 595	53 67
163	8.4	18 21.20	3.1999	0.0414	50 2 7.6	19.990	0.046	77.4	504 506 601 602	49 72
164	6.0	18 21.20	3.2109	0.0450	52 21 15.4	19.990	0.046	74.9	354 355 356	52 61
165	8.4	18 29.72	3.2109	0.0447	52 8 47.0	19.989	0.046	77.9	597 598	52 63
166	9.2	0 18 35.26	+3.2054	+0.0427	+ 50 52 40.7	+19.988	−0.046	71.6	1 140 141	50 67
167	9.1	18 54.38	3.2098	0.0434	51 18 57.6	19.986	0.047	73.2	137 262 263	51 69
168	6.6	18 54.78	3.2256	0.0485	54 18 5.2	19.986	0.047	77.9	592 593	54 57
169	9.0	19 13.01	3.2323	0.0499	55 1 15.2	19.984	0.048	77.9	594 595	54 58
170	7.4	19 18.46	3.2317	0.0495	54 47 53.6	19.983	0.048	77.9	597 598	54 59
171	8.6	0 19 31.54	+3.2096	+0.0421	+ 50 22 19.0	+19.982	−0.048	70.9	5 7	50 71
172	8.3	19 34.86	3.2111	0.0424	50 35 16.4	19.981	0.048	72.2	2 198 201	50 72
*173	8.8	19 44.57	3.2295	0.0478	53 49 15.4	19.980	0.049	77.4	504 506 601 602	53 69
174	8.8	19 47.31	3.2185	0.0443	51 45 13.9	19.980	0.049	72.9	135 143 262 263	51 74
175	8.6	20 0.62	3.2246	0.0457	52 34 8.4	19.978	0.050	74.9	359 361	52 67
176	9.0	0 20 5.09	+3.2342	+0.0485	+ 54 8 43.5	+19.977	−0.050	77.9	592 593	54 65
177	8.8	20 40.22	3.2343	0.0473	53 22 41.3	19.973	0.051	77.4	504 506 594 595	53 73
178	9.0	20 55.45	3.2215	0.0430	50 46 20.8	19.971	0.052	72.5	5 obs. [1]	50 75
179	7.9	21 6.04	3.2311	0.0454	52 15 50.6	19.969	0.052	74.9	359 361	52 73
180	9.0	21 7.55	3.2201	0.0422	50 13 21.9	19.969	0.052	70.9	2 4 5 7	50 76
181	8.4	0 21 15.54	+3.2462	+0.0496	+ 54 33 14.4	+19.968	−0.052	77.2	447 592 593	54 66
182	8.7	21 46.32	3.2366	0.0457	52 20 41.6	19.964	0.053	77.4	504 506 601 602	52 76
183	9.0	21 55.31	3.2539	0.0504	54 53 36.8	19.963	0.054	77.9	594 595	54 69
184	8.9	21 59.79	3.2551	0.0506	54 59 21.7	19.962	0.054	78.4	597 598 704 705	54 70
185	9.0	22 1.92	3.2540	0.0502	54 46 26.4	19.962	0.054	77.9	606 607	54 71
186	8.7	0 22 12.37	+3.2511	+0.0490	+ 54 7 45.7	+19.960	−0.054	77.9	592 593	54 72
187	9.0	22 16.70	3.2422	0.0463	52 37 49.8	19.960	0.055	77.9	604 605	52 77
188	8.8	22 26.45	3.2314	0.0430	50 36 28.3	19.958	0.055	70.9	5 obs. [2]	50 82
189	8.6	22 32.35	3.2600	0.0508	55 2 58.8	19.957	0.055	78.0	608 615	54 73
190	8.3	22 35.54	3.2579	0.0501	54 40 15.0	19.957	0.056	81.9	613 744 745	54 75
191	8.6	0 22 37.60	+3.2452	+0.0465	+ 52 41 40.1	+19.957	−0.055	77.4	504 506 601 602	52 79
192	8.8	22 46.79	3.2441	0.0460	52 20 26.6	19.955	0.056	77.9	597 598	52 80
193	9.0	22 51.34	3.2403	0.0447	51 36 48.3	19.955	0.056	71.9	135 137	51 85
194	8.2	23 0.67	3.2433	0.0453	51 55 21.2	19.953	0.056	71.9	140 141	51 86
195	9.0	23 9.33	3.2627	0.0503	54 41 41.0	19.952	0.057	78.0	592 593 613 614	54 80
196	9.5	0 23 16.82	+3.2496	+0.0465	+ 52 36 46.6	+19.951	−0.057	77.9	594 595	[52 81]
197	9.0	23 23.20	3.2455	0.0452	51 49 30.8	19.950	0.057	71.9	142 143	51 87
198	9.1	23 25.13	3.2610	0.0493	54 8 50.2	19.950	0.057	77.9	606 610 611	54 81
199	8.9	23 37.98	3.2682	0.0508	54 55 0.0	19.948	0.058	78.1	5 obs. [3]	54 82
200	9.0	23 40.22	3.2670	0.0504	54 42 17.4	19.947	0.058	81.2	447 749 750	54 83

[1] Z. 1 135 137 262 263 [2] Z. 1 2 4 5 7 [3] Z. 597 598 601 602 704

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
201	9.0	$0^h\ 23^m\ 41^s.81$	+3ˢ.2434	+0ˢ.0441	+ 51° 7′ 47″.8	+19″.947	−0″.058	72.9	198 201	51° 88
202	8.5	23 57.54	3.2685	0.0503	54 35 23.2	19.945	0.058	78.0	608 614	54 85
203	8.6	24 6.80	3.2735	0.0513	55 6 0.6	19.943	0.059	82.4	593 742 744 745	54 86
204	9.2	24 7.48	3.2726	0.0511	54 57 40.4	19.943	0.059	77.9	610 611	} 54 87
205	9.4	24 8.42	3.2727	0.0511	54 57 41.1	19.943	0.059	77.9	610 611	
206	6.8	0 24 9.50	+3.2732	+0.0512	+ 55 0 53.5	+19.943	−0.059	78.2	592 606 615 705	54 88
207	9.4	24 12.43	3.2566	0.0467	52 36 11.8	19.942	0.059	76.9	504 506	52 86
208	8.9	24 22.18	3.2720	0.0504	54 36 25.3	19.941	0.059	77.9	601 602 613	54 91
209	9.2	24 29.43	3.2512	0.0448	51 27 18.3	19.940	0.059	71.9	135 137	51 90
210	8.9	24 40.70	3.2587	0.0464	52 23 21.6	19.938	0.060	77.9	594 595	52 89
211	6.0	0 24 50.97	+3.2584	+0.0461	+ 52 8 57.7	+19.937	−0.060	77.9	597 598 604 605	52 92
212	7.7	24 52.18	3.2663	0.0480	53 16 15.8	19.936	0.060	77.9	608 610 611	53 81
213	5.8	24 53.14	3.2704	0.0491	53 49 53.4	19.936	0.060	78.0	613 614	53 82
214	8.5	24 58.67	3.2696	0.0487	53 36 46.0	19.935	0.060	77.9	592 593	53 83
215	7.8	25 15.80	3.2626	0.0464	52 18 42.2	19.933	0.061	83.9	742 744 745	52 94
216	7.7	0 25 19.18	+3.2687	+0.0479	+ 53 7 29.0	+19.932	−0.061	78.0	606 610 613 614	53 85
217	8.6	25 31.07	3.2712	0.0483	53 15 14.3	19.930	0.062	77.4	504 506 594 595	53 86
218	8.8	25 32.56	3.2584	0.0449	51 23 29.7	10.930	0.062	71.9	135 137	51 93
219	8.3	25 39.63	3.2818	0.0506	54 31 29.6	19.929	0.062	77.2	447 601 602	54 97
220	8.0	25 39.67	3.2570	0.0444	51 2 16.7	19.929	0.062	70.9	4 5 7	50 92
221	7.8	0 25 44.13	+3.2534	+0.0434	+ 50 24 48.2	+19.928	−0.062	71.9	140 141	50 93
222	8.2	25 50.16	3.2837	0.0507	54 34 12.6	19.927	0.063	77.9	597 598	54 99
223	7.2	25 53.23	3.2754	0.0486	53 25 51.2	19.926	0.062	77.9	592 593	53 90
224	8.8	26 8.79	3.2613	0.0447	51 9 48.8	19.924	0.063	71.9	142 143	51 94
225	9.2	26 14.02	3.2677	0.0461	52 0 11.8	19.923	0.063	72.9	198 201	51 95
226	6.5	0 26 14.87	+3.2841	+0.0501	+ 54 12 23.0	+19.923	−0.063	77.9	604 605	54 101
227	9.0	26 20.59	3.2615	0.0444	50 58 42.5	19.922	0.063	76.4	144 606 613 614	50 94
228	8.6	26 21.41	3.2779	0.0484	53 16 57.5	19.922	0.064	77.4	504 506 594 595	53 94
229	9.0	26 50.36	3 2720	0.0462	51 58 26.9	19.917	0.064	74.9	135 137 597 598	51 97
230	8.7	26 55.98	3.2742	0.0465	52 10 33.9	19.916	0.065	77.9	601 602	52 100
231	9.0	0 27 1.89	+3.2768	+0.0470	+ 52 26 3.8	+19.915	−0.065	77.9	606 608 611	[52 101]
232	7.7	27 4.59	3.2911	0.0504	54 14 25.7	19.914	0.065	77.2	447 592 593	54 104
233	8.7	27 7.83	3.2774	0.0470	52 24 45.3	19.914	0.065	77.9	606 608 610 611	52 104
234	7.0	27 18.19	3.2860	0.0488	53 22 38.3	19.912	0.066	77.4	504 506 594 595	53 98
235	8.5	27 18.54	3.2637	0.0435	50 18 27.0	19.912	0.065	76.1	5 obs. [1]	50 95
236	9.0	0 27 26 46	+3.2941	+0.0505	+ 54 15 11.2	+19.911	−0.066	77.9	604 605	54 107
237	8.2	27 43.57	3.2698	0 0443	50 45 41.2	19.908	0.066	71.9	140 141	50 99
238	9.5	28 5.93	3.2742	0.0448	51 0 48.4	19.904	0.067	72.2	142 143 201	50 101
239	6.9	28 20.04	3.2769	0.0451	51 9 13.6	19.901	0.068	71.9	135 137	51 103
240	9.1	28 20 86	3.2912	0.0483	53 0 15.6	19.901	0.068	77.9	592 593	52 112
241	7.0	0 28 32.32	+3.2968	+0.0494	+ 53 30 50.8	+19.899	−0.068	76.6	357 504 506 601	53 100
242	7.4	28 40.16	3.2920	0.0480	52 47 59.2	19.897	0.069	77.9	597 598	52 115
243	9.0	28 43.42	3.3076	0.0516	54 37 14.4	19.897	0.069	77.2	447 594 595	54 110
244	9.2	28 46.16	3.2728	0.0436	50 9 19.9	19.896	0.068	70.9	5 7	50 103
245	8.0	28 49.43	3.3119	0.0524	55 1 5.8	19.896	0.069	77.9	604 605	54 111
246	9.2	0 28 57.67	+3.2801	+0.0449	+ 50 58 0.8	+19.894	−0.069	72.4	144 198	50 105
247	7.8	29 8.23	3.3069	0.0507	54 9 34.4	19.892	0.070	77.9	606 610 611	54 113
248	4.8	29 11.40	3 3016	0.0494	53 28 45.9	19.892	0.070	77.9	601 602	53 102
249	9.1	29 20.24	3 2836	0.0452	51 5 11.8	19.890	0.070	78.0	613 614	50 107
250	8.1	29 42.16	3.2997	0.0482	52 47 0.0	19.886	0.071	77.9	592 593	52 119

[1] Z. 4 5 7 749 750

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
251	9.3	$0^h 29^m 47^s.14$	+3ˢ.3102	+0ˢ.0505	+ 53°56′ 34″.4	+19″.885	−0″.071	74.9	357 358	[53° 104]
252	9.4	29 47.24	3.3106	0.0505	53 59 4.7	19.885	0.071	76.9	504 506	53 103
253	7.1	29 48.91	3.3133	0.0511	54 16 8.4	19.885	0.071	77.9	594 595 604 605	54 115
254	9.4	29 48.96	3.3130	0.0510	54 13 56.8	19.885	0.071	81.2	447 749 750	54 114
255	9.6	29 57.78	3.2927	0.0463	51 40 22.4	19.883	0.071	85.9	908α 912	[51 108]
256	4.0	0 30 0.98	+3.3057	+0.0491	+ 53 12 31.0	+19.883	−0.071		**Fund. Cat.**	53 105
257	7.7	30 2.73	3.3175	0.0517	54 31 45.5	19.882	0.072	78 6	606 704 705	54 116
258	9.8	30 2.96	3.2935	0.0464	51 41 29.6	19.882	0.071	80.6 78.9	137 744α 908	51 109
259	8.6	30 6.04	3.3198	0.0521	54 43 46.8	19.882	0.072	78.0	613 614	54 117
260	9.0	30 8.13	3.2812	0.0436	50 0 17.2	19.881	0.071	76.0	8 obs [1]	49 141
261	7.5	0 30 31.77	+3.3215	+0.0518	+ 54 32 14.2	+19.877	−0.073	77.9	604 605	54 120
262	9.0	30 33.12	3.2961	0.0463	51 33 43.8	19.876	0.072	72.9	198 201	51 110
263	8.2	30 44.91	3.2954	0.0458	51 17 36.8	19.874	0.073	77.9	606 607	51 111
264	9.1	30 54.82	3.3253	0.0521	54 36 46.0	19.872	0.074	82.4	595 742 744 745	54 121
265	8.6	30 56.58	3.3117	0.0491	53 4 50.4	19.872	0.074	77.9	601 602	52 126
266	9.0	0 30 57.89	+3.2970	+0.0459	+ 51 17 55.0	+19.872	−0.073	77.9	606 607	51 112
267	9.1	31 6.49	3.2920	0.0446	50 32 36.6	19.870	0.074	71.9	142 143	50 111
268	9.0	31 12.47	3.2945	0.0450	50 46 12.9	19.869	0.074	75.4	144 604	50 112
269	9.1	31 14.84	3.3013	0.0464	51 34 31.1	19.868	0.074	71.9	135 137	51 113
270	7.8	31 29.16	3.2950	0.0448	50 34 52.5	19.865	0.074	72.4	4 5 265 266	50 115
271	9.0	0 31 46.09	+3.3252	+0.0508	+ 53 51 58.4	19.862	−0.076	77.4	504 506 592 593	53 109
272	7.6	31 48.13	3.2982	0.0450	50 42 12.5	19.862	0.075	77.9	597 598 601 602	50 116
273	9.0	31 52.74	3.3090	0.0472	51 56 49.7	19.861	0.076	72.9	198 201	51 118
274	8.0	31 58.08	3.3283	0.0511	54 1 23.5	19.860	0.076	74.9	357 358	53 110
275	8.1	32 11.11	3.2980	0.0445	50 20 25.0	19.857	0.076	71.6	8 140 141	50 117
276	9.0	0 32 11.76	+3.3016	+0.0452	+ 50 46 28.5	+19.857	−0.076	73.9	265 266	50 118
277	8.6	32 35.11	3.3137	0.0472	51 52 36.8	19.852	0.077	71.9	135 137	51 120
278	8.9	33 0.25	3.3015	0.0442	50 4 43.1	19.847	0.078	73.1	5 obs. [2]	49 150
279	8.4	33 7.30	3.3116	0.0461	51 11 32.1	19.845	0.078	72.9	198 201	51 121
280	9.2	33 17.96	3.3493	0.0536	55 3 26.0	19.843	0.079	74.9	357 358	54 125
281	9.2	0 33 20.85	+3.3044	+0.0444	+ 50 8 20.0	+19.842	−0.078	72.6	8 144 265 266	50 122
282	8.6	33 40.97	3.3163	0.0463	51 15 50.8	19.838	0.079	71.9	135 137	51 122
283	8.6	33 47.77	3.3456	0.0521	54 18 13.8	19.837	0.080	75.9	447 448	54 127
284	9.0	33 50.35	3.3174	0.0464	51 15 39.8	19.836	0.080	71.9	135 137	[51 124]
285	8.7	33 57.47	3.3100	0.0448	50 18 0.0	19.835	0.080	71.4	4 5 140 141	50 125
286	9.1	0 33 57.94	+3.3260	+0.0479	+ 52 7 19.1	+19.834	−0.080	77.6	6 obs. [3]	52 140
287	8.9	34 7.66	3.3363	0.0498	53 5 23.5	19.832	0.081	84.2	7 obs. [4]	52 141
288	9.4	34 9.99	3.3362	0.0497	53 2 48.2	19.832	0.081	85.2 84.9	744 911 914α	[52 143]
289	8.2	34 11.55	3.3296	0.0483	52 19 35.2	19.832	0.081	76.4	361 606	52 145
290	7.2	34 14.27	3.3225	0.0469	51 30 43.2	19.831	0.081	72.9	198 201	51 126
291	9.0	0 34 18.51	+3.3272	+0.0475	+ 51 58 21.1	+19.830	−0.081	73.9	265 266	} 51 127
292	9.8	34 20.12	3.3274	0.0477	51 58 26.2	19.830	0.081	73.9	265 266	
293	9.0	34 30.48	3.3508	0.0522	54 15 7.9	19.827	0.082	74.9	357 358	54 128
294	8.5	34 39.10	3.3598	0.0538	54 59 47.8	19.825	0.082	75.9	447 448	54 129
295	8.5	34 44.40	3.3257	0.0469	51 27 32.8	19.824	0.082	71.9	135 137	51 129
296	9.0	0 34 50.98	+3.3445	+0.0505	+ 53 21 37.7	+19.823	−0.082	77.9	604 605	53 119
297	8.6	34 53.92	3.3522	0.0519	54 5 2.0	19.822	0.083	77.9	597 598	53 120
298	8.9	34 59.54	3.3448	0.0503	53 16 22.8	19.821	0.083	77.9	602 603	53 121
299	9.5	35 2.86	3.3486	0.0510	53 37 0.0	19.820	0.083	81.9	606 749 750	53 122
300	8.6	35 6.30	3.3267	0.0467	51 17 1.2	19.820	0.083	77.9	594 595	51 131

[1] Z. 4 5 7 140 141 746 749 750 [2] Z. 4 5 142 447 448 [3] Z. 504 506 601 602 604 605
[4] Z. 742 744 745δ 746 749 750 914

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
301	9.0	$0^h\ 35^m\ 8^s.73$	+3ˢ.3590	+0ˢ.0530	+ 54°32′21″.8	+19″.819	−0″.084	77.9	599 601	54° 134
302	7.0	35 37.79	3.3339	0.0474	51 39 6.4	19.812	0.084	71.9	135 137	51 133
303	8.4	35 51.71	3.3365	0.0476	51 44 47.3	19.809	0.084	72.9	140 141 265 266	51 134
304	8.7	35 57.30	3.3323	0.0467	51 13 30.2	19.808	0.084	72.9	198 201	51 135
*305	8.8	36 4.36	3.3672	0.0534	54 36 40.8	19.806	0.086	74.9	357 358	54 137
306	8.3	0 36 32.55	+3.3353	+0.0466	+ 51 5 43.2	+19.800	−0.086	71.3	5 obs. [1]	50 133
307	8.4	36 51.00	3.3772	0.0542	54 56 9.8	19.796	0.087	75.9	447 448	54 139
308	8.8	36 52.44	3.3420	0.0475	51 33 22.2	19.795	0.087	71.9	135 137	51 138
309	8.7	36 53.67	3.3526	0.0494	52 36 38.8	19.795	0.087	74.9	359 361	52 153
310	8.3	36 53.77	3.3663	0.0520	53 54 50.6	19.795	0.087	74.9	357 358	53 129
311	9.1	0 37 18.58	+3.3671	+0.0516	+ 53 41 29.0	+19.789	−0.088	77.9	592 593	53 130
312	8.0	37 19.14	3.3648	0.0512	53 28 1.9	19.789	0.088	77.9	594 595	53 131
313	9.4	37 24.04	3.3334	0.0453	50 15 18.6	19.788	0.088	73.9	265 266	50 135
314	9.5	37 24.86	3.3335	0.0453	50 14 47.1	19.788	0.088	72.5	5 obs. [2]	[50 136]
315	8.6	37 32.82	3.3749	0.0528	54 13 50.6	19.786	0.089	75.9	447 448	54 141
316	9.0	0 37 41.30	+3.3630	+0.0504	+ 53 1 44.8	+19.784	−0.089	77.9	599 601	52 155
317	8.9[3]	38 7.42	3.3646	0.0502	52 51 51.9	19.777	0.090	74.9	361 [3]	52 158
318	4.5	38 10.47	3.3834	0.0536	54 32 14.6	19.777	0.090	74.9	357 358	54 143
319	9.0	38 19.18	3.3511	0.0475	51 24 49.8	19.774	0.090	72.4	135 137 198 201	51 140
320	8.0	38 42.28	3.3849	0.0532	54 17 47.1	19.769	0.092	75.9	447 448	54 144
321	9.4	0 38 44.06	+3.3851	+0.0532	+ 54 17 38.2	+19.768	−0.092	75.9	447 448	
322	8.0	38 45.96	3.3817	0.0526	53 58 4.8	19.768	0.092	77.9	594 595	53 138
323	8.8	38 46.15	3.3892	0.0540	54 37 6.4	19.768	0.092	76.4	357 358 599 601	54 145
324	8.6	38 46.58	3.3800	0.0522	53 48 38.8	19.768	0.092	77.9	592 593	53 137
325	9.1	38 48.60	3.3673	0.0499	52 38 13.8	19.767	0.091	74.9	359 361	52 160
326	9.5	0 38 48.90	+3.3945	+0.0549	+ 55 2 17.5	+19.767	−0.092	77.9	5 obs. [4]	54 146
327	9.0	39 6.26	3.3801	0.0519	53 35 56.0	19.763	0.092	77.9	597 598	53 141
328	6.6	39 6.62	3.3920	0.0540	54 37 17.6	19.763	0.093	75.9	357 358 601	54 148
329	9.1	39 14.70	3.3522	0.0467	50 51 32.9	19.761	0.092	71.4	4 5 140 141	50 138
330	8.5	39 31.00	3.3934	0.0538	54 27 42.4	19.757	0.094	77.9	594 595	54 151
331	9.0	0 39 38.69	+3.3565	+0.0470	+ 51 0 21.9	+19.755	−0.093	72.9	142 143 265 266	50 139
332	7.9	39 43.64	3.3888	0.0527	53 55 59.3	19.754	0.094	77.9	592 593	53 143
333	9.0	39 56.42	3.4028	0.0550	54 57 26.4	19.751	0.094	74.9	357 358	54 152
334	8.8	40 3.96	3.3681	0.0486	51 49 53.5	19.749	0.094	71.9	135 137	51 147
335	8.6	40 8.96	3.3497	0.0454	49 58 15.6	19.747	0.094	72.9	198 201	49 191
336	9.0	0 40 14.32	+3.3761	+0.0498	+ 52 27 12.3	+19.746	−0.094	74.9	359 361	52 164
337	8.7	40 15.74	3.4044	0.0548	54 52 33.4	19.746	0.095	75.9	447 448	54 154
338	8.2	40 21.94	3.3555	0.0462	50 24 49.2	19.744	0.094	71.9	144 145	50 141
339	8.4	40 27.02	3.3561	0.0462	50 24 59.0	19.743	0.094	71.9	144 145	50 142
340	8.6	40 37.36	3.3533	0.0455	50 0 47.6	19.740	0.095	73.9	265 266	49 193
341	9.4	0 40 45.34	+3.3550	+0.0457	+ 50 5 31.0	+19.738	−0.095	77.9	606 607	[49 195]
342	9.2	40 48.03	3.4006	0.0535	54 12 39.1	19.737	0.096	79.4	357 358 749 750	54 156
343	9.3	40 54.94	3.3885	0.0512	53 6 6.8	19.735	0.096	77.9	602 603	52 167
344	7.4	40 55.09	3.3630	0.0468	50 45 43.5	19.735	0.096	77.4	4 5 758 760 [5]	50 143
345	9.0	40 55.22	3.3630	0.0468	50 45 42.5	19.735	0.096	70.9	4 5 [5]	
346	8.3	0 40 56.98	+3.3719	+0.0484	+ 51 35 32.2	+19.735	−0.096	71.9	135 137	51 149
347	10.2	40 59.08	3.3568	0.0457	50 6 50.2	19.734	0.096	71.9	141	50 144
348	8.8	41 1.19	3.3732	0.0485	51 39 56.5	19.734	0.096	77.9	604 605	51 151
349	8.7	41 3.54	3.3801	0.0496	52 16 4.6	19.733	0.096	81.5	5 obs. [6]	52 168
350	8.6	41 20.06	3.4038	0.0535	54 7 29.8	19.729	0.098	75.9	447 448	54 158

[1] Z. 4 5 8 144 145 [2] Z. 5 142 143 265 266 [3] Dupl. maj.; Z. 359 med. 7ˢ.62 52″.0 (74.9), magns 8.7 9.4
[4] Z. 603 608 611 613 614 [5] Z. 599 601 mean of Nos. 344 and 345: 55ˢ.20 42″.6 (77.9), magns 8.4 9.0
[6] Z. 359 361 911 912 914

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
351	8.5	$0^h 41^m 28^s.12$	+3ˢ.3971	+0ˢ.0521	+ 53°28′44″.2	+19″.727	−0″.098	77.9	592 593	53°146
352	7.9	41 28.26	3.4174	0.0557	55 7 0.8	19.727	0.098	77.9	610 611	55 166
353	7.6	41 35.36	3.3747	0.0482	51 25 7.1	19.725	0.097	77.9	602 603	51 153
354	5.6	41 45.60	3.3639	0.0462	50 17 10.4	19.722	0.097	72.9	142 143 265 266	50 147
355	9.1	42 4.29	3.4000	0.0519	53 19 42.2	19.717	0.099	79.6	5 obs. [1]	53 149
356	9.1	0 42 12.87	+3.3917	+0.0504	+ 52 31 45.7	+19.715	−0.099	74.9	359 361	52 171
357	9.2	42 14.59	3.4013	0.0520	53 19 33.9	19.714	0.099	79.6 81.5	7 obs. [2]	53 150
358	9.1	42 20.94	3.4215	0.0553	54 53 0.3	19.713	0.100	75.9	447 448	54 161
359	8.4	42 27.62	3.3792	0.0480	51 15 52.6	19.711	0.099	71.9	135 137	51 157
360	9.0	42 39.12	3.3910	0.0498	52 11 15.0	19.708	0.100	81.9 85.9	594α 595α 912 914	52 173
361	8 8	0 42 57.94	+3.3749	+0.0468	+ 50 32 0.4	+19.703	−0.100	71.6	6 obs. [3]	50 154
362	8.9	43 10 28	3.3812	0.0476	50 58 44.3	19.700	0.101	73.9	265 266	50 156
363	9.6	43 17.88	3.3710	0.0459	49 57 8.6	19.698	0.101	80.2	200 742 745	49 214
364	8.2	43 20.56	3.3712	0.0459	49 56 57.5	19.697	0.101	74.9	5 obs. [4]	49 215
365	8.5	43 24.78	3.4293	0.0554	54 48 48.4	19.696	0.103	74.9	357 358	54 165
366	9.1	0 43 37.81	+3.3814	+0.0472	+ 50 42 9.4	+19.692	−0.102	77.9	592 593	50 160
367	6.2	43 48.92	3.3840	0.0475	50 49 37.3	19.689	0.102	72.9	142 143 265 266	50 161
368	8.8	43 56.02	3.3937	0.0489	51 36 37.5	19.687	0.103	71.9	135 137	51 168
369	9.1	44 9.50	3.4129	0.0518	53 4 21.3	19.683	0.104	77.9	602 603	52 177
370	6.8	44 26.47	3.3892	0.0477	50 53 28.1	19.678	0.104	80.2	200 742 746	50 164
371	8.3	0 44 33.26	+3.3858	+0.0471	+ 50 31 10.0	+19.676	−0.104	72.9	4 5 359 361	50 165
372	9.0	44 43.59	3.3809	0.0461	49 58 26.6	19.674	0.104	83.9	744 745 749 750	49 220
373	9.8	44 44.58	3.3808	0.0461	49 57 22.0	19.673	0.104	83.9	744 749	
374	7.6	44 47.84	3.3827	0.0464	50 5 39.9	19.672	0.104	76.8	9 obs. [5]	49 222
375	9.0	45 5.82	3.4448	0.0561	54 56 46.9	19.667	0.107	74.9	357 358	54 169
376	9.3	0 45 7.30	+3.3919	+0.0475	+ 50 42 39.5	+19.667	−0.105	80.9	599 601 758 760	50 168
377	8.6	45 31.74	3.4106	0.0501	52 3 14.0	19.660	0.107	71.9	135 137	51 172
378	8.2	45 34.10	3.4054	0.0492	51 35 54.9	19.659	0.107	73.9	265 266	51 173
379	8.8	45 40.49	3.4008	0.0484	51 8 43.1	19.657	0.107	79.9	5 obs. [6]	51 174
380	9.0	45 40.72	3.4455	0.0556	54 39 28.7	19.657	0.108	77.9	597 598	54 170
381	9.6	0 45 41.06	+3.3954	+0.0476	+ 50 40 41.1	+19.657	−0.107	77.9	144 746	— —
382	8.8	45 50.80	3.3898	0.0465	50 5 16.9	19.654	0.107	84.0	758 760	49 227
383	8.8	45 53.67	3.4150	0.0504	52 11 46.7	19.653	0.108	77.4	504 506 594 595	52 189
384	8.5	45 59.82	3.4037	0.0486	51 12 0.6	19.652	0.108	79.6	200 592 745 750	51 175
385	8.8	46 3.33	3.4546	0.0566	55 5 23.6	19.651	0.109	77.9	599 601	54 171
386	8.7	0 46 6.04	+3.3927	+0.0467	+ 50 11 12.8	+19.650	−0.107	70.9	4 8	50 171
387	8.1	46 7.04	3.4531	0.0563	54 56 57.2	19.650	0.109	77.9	608 610 611	54 172
388	8.8	46 14.06	3.4381	0.0538	53 47 19.4	19.648	0.109	74.9	357 358	53 166
389	9.0	46 15.39	3.4109	0.0494	51 38 46.4	19.647	0.108	77.9	602 603	51 177
390	8.8	46 20.56	3.4411	0.0541	53 57 2.2	19.646	0.109	84.0	761 762	53 168
391	9.4	0 46 22.01	+3.4122	+0.0495	+ 51 40 46.6	+19.645	−0.109	83.9	742	51 178
392	9.0	46 26.65	3.4345	0.0530	53 23 41.2	19.644	0.109	77.9	597 598	53 169
393	9.6	46 33.36	3.4144	0.0497	51 45 16.6	19.642	0.109	77.9	604 605	— —
394	9.2	46 34.78	3.4178	0.0502	52 0 36.8	19.641	0.109	71.9	135 137	51 179
395	6.8	46 35.56	3.4179	0.0502	52 0 39.6	19.641	0.109	71.9	135 137	
396	9.0	0 46 36.43	+3.4424	+0.0541	+ 53 53 27.8	+19.641	−0.110	77.9	606 607	[53 171]
397	8.3	46 36.49	3.4251	0.0513	52 34 42.3	19.641	0.109	74.9	359 361	52 191
398	8.2	46 39.44	3.4494	0.0552	54 22 7.9	19.640	0.110	78.0	613 614	54 173
399	9.0	46 51.73	3.4251	0.0511	52 25 35.6	19.636	0.110	77.4	504 506 594 595	52 193
400	8.1	46 52.23	3.4610	0.0568	55 4 6.8	19.636	0.111	77.9	608 610 611	54 175

[1] Z. 357 358 592 593 742 744 745
[2] Z. 357α 358α 592 593 742 744 745
[3] Z. 4 5 140 141 144 145
[4] Z. 200 359 361 447 448
[5] Z. 140 141 593 594 595 602 603 704 705
[6] Z. 359 361 593 911 912

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
401	9.0	$0^h\,46^m\,56^s.12$	+3ˢ.4324	+0ˢ.0521	+ 52°57′12″.8	+19″.635	−0″.110	77.9	592 593	52° 194
402	9.2	47 7.45	3.3993	0.0468	50 8 56.7	19.632	0.110	71.4	4 8 140 141	50 176
403	8.8	47 8.46	3.4460	0.0541	53 50 58.2	19.631	0.111	74.9	357 358	53 173
404	9.0	47 12.08	3.4596	0.0562	54 47 8.9	19.630	0.112	77.9	602 603	54 176
405	8.6	47 24.22	3.4314	0.0515	52 35 58.0	19.627	0.111	74.9	359 361	52 196
406	9.8	0 47 27.64	+3.4125	+0.0486	+ 51 3 54.6	+19.626	−0.111	72.7	5 obs. [1]	50 177
407	8.4	47 48.19	3.4084	0.0476	50 31 31.4	19.619	0.111	71.9	135 137	50 179
408	8.4	48 18.68	3.4530	0.0540	53 41 39.1	19.610	0.114	74.9	357 358	53 176
409	9.0	48 38.02	3.4598	0.0547	53 59 50.8	19.604	0.115	77.4	504 506 594 595	53 178
410	8.9	48 49.86	3.4373	0.0511	52 14 37.1 [2]	19.601	0.114	75.9	359 361 611	52 201
411	8.6	0 48 50.90	+3.4534	+0.0535	+ 53 25 45.0	+19.600	−0.115	77.9	604 605	53 179
412	8.1	48 51.18	3.4716	0.0563	54 41 37.6	19.600	0.116	77.9	592 593	54 183
413	9.3	48 51.86	3.4716	0.0563	54 41 2.2	19.600	0.116	80.9	592 593 744 745	54 184
414	8.8	48 52.78	3.4642	0.0552	54 10 29.2	19.600	0.116	77.9	602 603	54 185
415	9.2	48 53.66	3.4529	0.0534	53 21 59.0	19.600	0.115	74.9	357 358	53 180
416	9.0	0 48 55.54	+3.4374	+0.0510	+ 52 12 9.0	+19.599	−0.115	77.9	610 611	52 202
417	8.0	49 1.60	3.4331	0.0503	51 48 49.2	19.597	0.115	72.9	5 obs. [3]	51 188
418	8.2	49 14.48	3.4815	0.0575	55 8 29.6	19.593	0.117	77.9	604 605	55 205
419	9.0	49 28.49	3.4478	0.0521	52 40 23.6	19.589	0.116	77.4	504 506 594 595	52 208
420	8.8	49 47.22	3.4246	0.0483	50 43 24.1	19.583	0.116	71.6	7 obs. [4]	50 180
421	7.0	0 49 55.32	+3.4740	+0.0556	+ 54 16 33.0	+19.580	−0.118	77.9	593 602 603	54 187
422	9.6	49 56.73	3.4260	0.0484	50 44 51.4	19.580	0.116	83.9	744 745	[50 182]
423	8.9	50 3.64	3.4252	0.0482	50 37 21.0	19.578	0.117	85.9	911 912	50 184
424	7.8	50 5.02	3.4517	0.0521	52 37 32.4	19.577	0.118	74.9	359 361	52 210
425	7.2	50 6.66	3.4377	0.0500	51 33 47.9	19.577	0.117	71.9	135 137	51 193
426	8.5	0 50 13.81	+3.4279	+0.0484	+ 50 44 35.1	+19.574	−0.117	77.6 75.6	8 145 745α 755	50 185
427	8.0	50 17.30	3.4687	0.0544	53 43 11.2	19.573	0.119	74.9	357 358	53 184
428	8.8	50 21.98	3.4913	0.0578	55 10 55.3	19.572	0.120	83.9	742 746	55 212
429	8.8	50 22.25	3.4850	0.0568	54 46 7.9	19.572	0.119	77.9	593 608 610 611	54 191
430	9.3	50 25.14	3.4851	0.0568	54 44 58.0	19.571	0.119	77.9	610 611	
431	8.1	0 50 27.50	+3.4583	+0.0527	+ 52 54 7.9	+19.570	−0.119	77.4	504 506 594 595	52 213
432	9.2	50 32.10	3.4260	0.0479	50 25 18.8	19.568	0.118	73.9	265 266	50 186
433	9.4	50 33.12	3.4926	0.0578	55 10 8.8	19.568	0.120	83.9	742 746	[55 214]
434	7.3	50 41.55	3.4405	0.0499	51 27 37.5	19.566	0.118	76.2	200 602 603	51 199
435	8.2	50 46.38	3.4941	0.0578	55 8 53.2	19.564	0.120	83.9	749 750	55 216
436	9.0	0 51 0.42	+3.4580	+0.0522	+ 52 34 56.0	+19.560	−0.120	74.9	359 361	52 215
437	9.3	51 3.20	3.4751	0.0547	53 44 59.8	19.559	0.120	80.9	357 758 760 [5]	53 185
438	9.6	51 3.22	3.4751	0.0547	53 45 13.2	19.559	0.120	83.9 84.0	755α 758 760 [5]	
439	9.1	51 40.55	3.4286	0.0474	50 0 41.2	19.546	0.120	72.1 72.4	5 obs. [6]	49 256
440	8.4	51 42.11	3.4529	0.0509	51 50 38.1	19.546	0.121	72.2	135 137 200	51 202
441	9.0	0 51 42.32	+3.4834	+0.0553	+ 53 57 56.9	+19.546	−0.122	77.4	504 506 594 595	53 193
442	8.9	51 43.33	3.4827	0.0552	53 54 55.6	19.546	0.122	77.9	592 593	53 192
443	8.6	52 12.08	3.4376	0.0482	50 26 6.9	19.536	0.122	71.4	8 10 142 143	50 191
444	8.9	52 16.06	3.4630	0.0518	52 16 27.9	19.535	0.123	76.2	359 361 709	52 224
445	8.9	52 22.62	3.4907	0.0557	54 6 14.6	19.533	0.124	79.9	6 obs. [7]	53 196
446	8.9	0 52 23.84	+3.5036	+0.0576	+ 54 54 50.2	+19.532	−0.124	83.9	746	54 195
447	8.8	52 27.98	3.4907	0.0556	54 3 23.7	19.531	0.124	77.2	8 obs. [8]	53 197
448	8.5	52 44.67	3.4684	0.0521	52 24 22.2	19.525	0.124	80.9	608 609 744 745	52 226
449	8.3	52 46.04	3.5018	0.0570	54 36 57.0	19.525	0.125	77.9	610 611	54 197
450	9.0	52 51.05	3.4853	0.0545	53 30 31.2	19.523	0.125	77.4	504 506 592 593	53 198

[1] Z. 142 144 145 265 266 [2] 35″.1 36″.4 39″.9 [3] Z. 135 137 200 265 266 [4] Z. 4 8 140 141 142 143 144
[5] Z. 746 mean of nos. 437 and 438: 3ˢ.17. 45′ 5″.0 (83.9) magns 9.8 9.8 [6] Z. 4 5α 12 265 266
[7] Z. 604 605 606 607 749 750 [8] Z. 357 358 602 603 604 605 606 607

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
451	9.0	$0^h 52^m 52^s.25$	+3s.4678	+0s.0519	+ 52° 18′ 18″.8	+19″.523	−0″.124	77.9	599 601 603 607	52° 227
452	8.8	52 55.65	3.4463	0.0488	50 42 35.8	19.522	0.124	72.4	12 14 265 266	50 194
453	8.1	53 4.77	3.4576	0.0503	51 27 53.4	19.519	0.124	72.2	135 137 200	51 208
454	8.4	53 7.57	3.4506	0.0493	50 56 1.2	19.518	0.124	71.4 71.6	4 5α 140 141	50 195
455	8.2	53 26.10	3.4489	0.0488	50 38 34.6	19.512	0.125	70.9	8 10	50 197
456	7.5	0 53 42.06	+3.4449	+0.0480	+ 50 12 18.1	+19.506	−0.125	81.9	6 obs. [1]	50 198
457	8.6	53 45.31	3.5136	0.0578	54 51 20.9	19.505	0.128	77.9	5 obs. [2]	54 203
458	9.0	53 47.06	3.5117	0.0574	54 43 19.1	19.504	0.128	83.9	742 745 749 750	54 204
459	8.1	53 47.32	3.4988	0.0556	53 54 51.6	19.504	0.127	74.9	357 358	53 202
460	9.6	53 53.40	3.4764	0.0523	52 22 44.8	19.502	0.127	74.9	359 361	[52 232]
461	7.9	0 53 57.50	+3.4626	+0.0503	+ 51 22 53.9	+19.501	−0.126	72.9	135 137 265 266	51 212
462	9.3	54 1.32	3.4775	0.0523	52 23 20.4	19.500	0.127	84.0	758 760	52 234
463	9.4	54 7.01	3.4446	0.0476	49 58 14.6	19.498	0.126	71.9	142 143	49 265
464	8.6	54 11.53	3.5120	0.0571	54 32 22.2	19.496	0.128	77.9	599 601	54 207
465	8.6	54 11.88	3.4902	0.0540	53 8 56.7	19.496	0.128	77.4	504 506 592 593	53 203
466	9.0	0 54 13.91 [3]	+3.5238	+0.0588	+ 55 14 9.9	+19.495	−0.129	84.6 84.9	742 745 912 914δ	55 225
467	9.7	54 17.32	3.5240	0.0588	55 13 22.6	19.494	0.129	85.9	912 914α	[55 226]
468	8.5	54 33.60	3.4530	0.0485	50 22 21.3	19.489	0.127	71.3 71.4	5 obs. [4]	50 200
469	9.2	54 59.36	3.5072	0.0557	53 51 18.8	19.480	0.130	74.9	357 358	53 206
470	7.2	55 2.76	3.4562	0.0485	50 21 43.5	19.478	0.128	71.4 71.2	6 obs. [5]	50 202
471	8.7	0 55 7.50	+3.5039	+0.0551	+ 53 34 50.2	+19.477	−0.130	77.4	504 506 592 593	53 207
472	7.6	55 20.10	3.4840	0.0521	52 10 41.3	19.472	0.130	82.4	595 742 744 745	52 240
473	9.0	55 24.81	3.4585	0.0485	50 20 54.3	19.471	0.129	76.5	5 obs. [6]	50 204
474	9.0	55 29.43	3.4718	0.0503	51 15 34.8	19.469	0.130	71.9	135 137	51 215
475	7.0	55 36.02	3.4706	0.0500	51 7 32.0	19.467	0.130	73.9	265 266	51 216
476	7.9	0 55 49.00	+3.4919	+0.0528	+ 52 28 4.7	+19.462	−0.131	77.9	592 593	52 241
477	9.0	55 51.12	3.5041	0.0545	53 14 26.6	19.462	0.132	74.9	357 358	53 208
478	8.8	56 8.39	3.5247	0.0571	54 22 28.6	19.456	0.133	77.9	599 601	54 211
479	8.7	56 8.40	3.4792	0.0508	51 27 18.7	19.456	0.131	77.9	608 609	51 218
480	9.1	56 23.22	3.4670	0.0490	50 28 52.3	19.450	0.132	73.0	7 obs. [7]	50 207
481	9.2	0 56 24.78	+3.4822	+0.0510	+ 51 31 39.6	+19.450	−0.132	78.9	706 707 708 709	51 219
482	8.3	56 35.17	3.4968	0.0528	52 24 56.8	19.446	0.133	74.9	359 361	52 247
483	8.6	56 39.18	3.4939	0.0524	52 11 41.4	19.445	0.133	79.3	7 obs. [8]	52 248
484	9.3	56 39.59	3.4691	0.0490	50 30 8.1	19.444	0.132	83.9	746 749 750	50 208
*485	8.8	56 41.78	3.5282	0.0571	54 19 11.9	19.444	0.134	77.9	602 603	54 213
486	6.0	0 56 42.22	+3.4888	+0.0516	+ 51 49 56.0	+19.443	−0.133	78.9	704 705	51 220
*487	8.3	56 44.99	3.5433	0.0592	55 10 37.3	19.442	0.135	83.9	742 744 745	55 236
488	8.6	56 51.99	3.4954	0.0524	52 11 44.3	19.440	0.134	79.3	7 obs [9]	52 249
489	8.7	56 52.69	3.5207	0.0559	53 47 13.5	19.440	0.134	80.9	606 607 755 757	53 210
*490	8.9	56 54.42	3.5311	0.0573	54 23 47.8	19.439	0.135	77.9	599 601	54 214
491	7.0	0 56 54.51	+3.5168	+0.0553	+ 53 32 4.4	+19.439	−0.134	77.9	610 611	53 211
492	8.6	57 3.36	3.4907	0.0516	51 47 33.5	19.436	0.134	77.9	608 609	51 221
493	8.6	57 4.83	3.4727	0.0492	50 33 5.0	19.435	0.133	73.6	200 265 266	50 210
494	9.2	57 4.94	3.4813	0.0503	51 8 41.4	19.435	0.134	78.9	713 714	51 222
495	9.2	57 18.51	3.4838	0.0505	51 12 21.8	19.430	0.134	83.9	742 744 745	51 223
496	8.2	0 57 21.40	+3.5470	+0.0591	+ 55 6 25.2	+19.429	−0.137	77.9	602 603	54 215
497	9.1	57 22.39	3.5285	0.0565	54 1 15.9	19.429	0.136	78.6	611 706 724	53 213
498	9.1	57 27.66	3.5275	0.0563	53 55 17.4	19.427	0.136	78.9	708 709	53 214
499	6.6	57 28.76	3.4724	0.0488	50 20 19.6	19.427	0.134	71.9	140 141	50 212
500	9.2	57 33.36	3.5061	0.0533	52 33 10.1	19.425	0.135	74.9	359 361	52 251

[1] Z. 145 746 755 757 761 762 [2] Z. 595 602 603 604α 605 [3] 13s.92 14s.11 13s.71 [14s.74]
[4] Z. 4 5α 12 14 200 [5] Z. 5α 8 10 140α 141α 145 [6] Z. 12 140 141 749 750
[7] Z. 4 8 10 14 142 143 749 [8] Z. 504 506 592 593 595 758 760 [9] Z. 504 506 592 593 595 758 760

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
501	8.7	$0^h\,57^m\,41^s.97$	+3s.5105	+0s.0538	+ 52°46′ 0″.2	+19″.422	−0″.136	77.4	504 506 592 593	52° 252
502	8.7	57 50.21	3 4737	0.0487	50 15 19.0	19.419	0.135	76.4	145 603 606 607	50 214
503	9.2	58 11.28	3.5254	0.0554	53 27 37.1	19.411	0.137	77.9	597 598	53 216
504	8.8	58 26.10	3.5354	0.0565	53 56 32.1	19.406	0.138	77.9	599 601	53 218
505	9.0	58 30.76	3.4842	0.0496	50 39 29.1	19.404	0.137	72.9	12 200 265 266	50 216
506	8.4	0 58 34.01	+3.5070	+0.0526	+ 52 8 29.9	+19.403	−0.138	74.9	359 361	52 255
507	8.9	58 43.69	3.5404	0.0570	54 6 15.0	19.399	0.139	77.4	504 506 592 593	53 221
508	8.9	58 57.45	3.5506	0.0582	54 34 58.0	19.394	0.140	82.4	595 742 744 745	54 220
509	8.9	59 6.34	3.5407	0.0567	53 57 2.0	19.391	0.140	77.9	610 611	53 224
510	8.8	59 13.16	3.5373	0.0561	53 41 57.3	19.388	0.140	77.9	597 598	53 226
511	8.2	0 59 39.56	+3.4811	+0.0484	+ 49 55 0.6	+19.378	−0.139	71.2	8 10 141	49 296
512	9.6	59 41.11	3.4816	0.0484	49 56 31.0	19.378	0.139	73.9	265 266	49 295
513	6.9	59 44.14	3.5266	0.0543	52 49 43.7	19.377	0.141	74.9	359 361	52 262
*514	5.2	59 58.36	3.5537	0.0577	54 18 22.0	19.371	0.142	75.9	447 448	54 223
515	8.7	1 0 34.28	3.5188	0.0526	51 58 27.3	19.358	0.142	72.2	142 143 200	51 231
516	8.2	1 0 38.81	+3.5299	+0.0540	+ 52 37 2.3	+19.356	−0.143	77.9	592 593	52 266
517	8.8	0 42.12	3.5627	0.0583	54 29 18.1	19.355	0.144	75.9	447 448	54 225
518	8.6	0 47.86	3.5235	0.0530	52 9 49.2	19.353	0.143	74.9	359 361	52 267
519	7.1	0 54.60	3.5479	0.0561	53 33 47.2	19.350	0.144	77.6	5 obs. [1]	53 229
520	9.6	1 5.38	3.5039	0.0503	50 47 36.8	19.346	0.143	70.9	12 14	50 222
521	8.9	1 1 37.54	+3.5519	+0.0561	+ 53 28 48.9	+19.334	−0.146	75.9	447 448	53 231
522	8.8	1 51.34	3.5275	0.0527	51 56 10.1	19.328	0.145	73.2	145 200 265 266	51 236
523	8.1	1 55.58	3.4982	0.0488	50 2 42.2	19.326	0.144	70.9	8 10	49 306
524	8.4	2 9.98	3.5132	0.0506	50 54 35.3	19.321	0.146	71.6	12 140 141	50 224
525	8.6	2 14.84	3.5652	0.0573	53 57 41.6	19.319	0.148	77.4	504 506 597 598	53 234
526	8.2	1 2 19.30	+3.5350	+0.0533	+ 52 11 13.2	+19.317	−0.147	77.9	592 593	52 270
527	7.5	2 21.48	3.5681	0.0576	54 4 13.4	19.316	0.148	77.9	604 605	53 236
528	8.8	2 34.83	3.5390	0.0536	52 18 53.6	19.311	0.148	77.9	594 595	52 271
529	8.6	2 35.41	3.5209	0.0513	51 12 47.3	19.311	0.147	77.9	606 607	51 238
530	8.2	2 36.26	3.5235	0.0516	51 21 58.8	19.311	0.147	77.9	610 611	51 239
531	8.7	1 2 44.32	+3.5198	+0.0511	+ 51 4 34.0	+19.307	−0.147	77.9	599 601	} 50 227
532	8.4	2 44.60	3.5199	0.0511	51 4 48.4	19.307	0.147	77.9	599 601	
533	8.2	2 54.02	3.5542	0.0553	53 3 58.6	19.304	0.149	78.9	708 709	52 272
534	8.6	3 7.48	3.5694	0.0571	53 49 7.0	19.298	0.150	75.9	447 448	53 240
535	7.2	3 7.54	3.5288	0.0519	51 27 47.5	19.298	0.148	78.4	613 705	51 241
536	9.2	1 3 10.06	+3.5060	+0.0490	+ 50 0 27.1	+19.297	−0.148	70.9	8 10	49 313
537	9.0	3 10.41	3.5666	0.0567	53 38 39.9	19.297	0.150	77.4	504 506 597 598	53 241
538	7.2	3 11.53	3.5114	0.0497	50 20 45.9	19.297	0.148	72.9	12 200 265 266	50 228
539	9.0	3 23.25	3.5396	0.0531	52 0 20.2	19.292	0.149	77.9	594 595	51 242
540	8.9	3 25.88	3.5235	0.0510	51 0 35.6	19.291	0.149	77.9	599 601	50 230
541	5.5	1 3 30.22	+3.5847	+0.0588	+ 54 29 3.8	+19.289	−0.152	77.9	604 605	54 236
542	9.4	3 45.55	3.5679	0.0564	53 28 19.8	19.283	0.151	75.9	447 448	[53 245]
543	9.3	3 47.57	3.5684	0.0565	53 29 5.7	19.282	0.151	75.9	447 448	53 246
544	8.7	4 7.62	3.5456	0.0533	52 2 47.6	19.274	0.151	77.6	6 obs. [2]	51 246
545	9.5	4 11.80	3.5265	0.0509	50 51 53.4	19.272	0.150	72.9	12 200 265 266	50 232
546	8.4	1 4 21.36	+3.5468	+0.0533	+ 52 1 5.6	+19.269	−0.152	77.9	594 595	51 248
547	8.6	4 53.51	3.5312	0.0510	50 51 36.9	19.256	0.152	76.2	200 447 599 601	} 50 236
548	9.2	4 53.92	3.5312	0.0510	50 51 36.4	19.255	0.152	76.2	200 447 599 601	
549	9.2	5 4.37	3.5609	0.0545	52 32 0.4	19.251	0.154	79.9 79.1	6 obs. [3]	52 276
550	...[4]	5 11.13	3.5615	0.0545	52 31 13.2	19.248	0.154	83.9	746 749	52 277

[1] Z. 504 506 597 598 613 614 [2] Z. 504 506 594 595 613 614 [3] Z. 597 598 608 609 749 750α

[4] Dupl. med., $9^m.4$ and $9^m.4$

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
551	8.5	1h 5m15s.34	+3s.6141	+0s.0611	+ 55°16′ 26″.6	+19″.247	−0″.156	83.9	753 758 760	55°266
552	8.2	5 20.86	3.5695	0.0554	52 53 57.3	19.244	0.155	77.9	610 611	52 279
553	9.2	5 25.74	3.5439	0.0521	51 24 7.2	19.242	0.154	77.9	594 595	51 251
554	7.2	5 27.46	3.5364	0.0512	50 56 25.0	19.242	0.154	70.9	8 10	50 238
555	8.4	5 32.92	3.5865	0.0573	53 44 21.5	19.239	0.156	81.5	5 obs. [1]	53 254
556	8.9	1 5 48.29	+3.5304	+0.0502	+ 50 25 51.4	+19.233	−0.154	73.6	12 265 266 448	50 240
557	9.0	5 56.68	3.5567	0.0533	51 56 3.8	19.230	0.156	77.4	504 506 602 603	51 255
558	8.8	6 1.12	3.6131	0.0603	54 55 21.2	19.228	0.158	78.6	598 706 707	54 244
559	8.5	6 2.62	3.5311	0.0502	50 22 32.5	19.227	0.155	77.2	447 599 601	50 241
560	9.0	6 44.60	3.6193	0.0605	54 56 33.9	19.210	0.160	77.9	594 595 603	54 247
561	8.6	1 6 57.50	+3.5714	+0.0544	+ 52 21 18.8	+19.204	−0.158	77.9	597 598	52 284
562	9 4	7 0.80	3.5902	0.0567	53 20 52.8	19.203	0.159	75.9	447 448	53 256
563	8.8	7 17.82	3.5706	0.0540	52 10 9.8	19.196	0.159	77.9	608 609	52 286
564	9.4	7 29.99	3.5863	0.0558	52 56 56.0	19.191	0.160	77.9	599 601	52 287
565	8.9	7 42.34	3.5793	0.0548	52 29 29.6	19.185	0.160	77.9	606 610 611	52 289
566	9.0	1 7 44.21	+3.5659	+0.0532	+ 51 44 0.5	+19.185	−0.160	76.2	200 602 603	51 263
567	9.0	7 53.05	3.5562	0.0519	51 6 58.9	19.181	0.160	78.9	704 705	51 265
568	7.8	7 59.02	3.5562	0.0518	51 4 45.6	19.178	0.160	70.9	8 10	50 243
569	9.0	8 15.58	3.5548	0.0515	50 53 9.6	19.171	0.160	70.9	12 14	50 244
570	8.7	8 17.48	3.5435	0.0501	50 12 36.2	19.170	0.160	77.9	594 595	50 245
571	9.0	1 8 31.61	+3.6097	+0.0579	+ 53 46 5.6	+19.164	−0.163	75.9	447 448	53 261
572	8.0	8 38.68	3.6277	0.0600	54 37 3.0	19.161	0.164	78.0	606 613	54 253
573	8.6	8 41.32	3.6336	0.0607	54 53 18.0	19.160	0.165	77.9	602 603	54 254
574	9.0	9 1.57	3.6199	0.0588	54 5 24.3	19.151	0.165	77.9	608 609 614	53 263
575	9.4	9 10.62	3.5853	0.0545	52 14 8.1	19.147	0.164	77.9	610 611	52 294
576	8.8	1 9 22.65	+3.6030	+0.0565	+ 53 5 51.2	+19.142	−0.165	78.6	447 448 749	52 297
577	8.8	9 23.62	3.6034	0.0565	53 6 28.9	19.142	0.165	79.2	6 obs. [2]	53 266
578	8.1	9 39.16	3.6491	0.0619	55 15 28.9	19.135	0.167	83.9	753 758 760	55 279
579	9.0	9 51.24	3.6311	0.0595	54 19 23.4	19.130	0.167	77.9	602 603	[54 256]
580	9.8	9 58.61	3.5560	0.0505	50 16 53.2	19.127	0.164	70.9	12 14	50 248
581	8.8	1 9 58.92	+3.6315	+0.0595	+ 54 17 51.2	+19.126	−0.167	77.9	602 603	54 257
582	8.8	9 59.49	3.5810	0.0534	51 41 3.6	19.126	0.165	75.4	200 613	51 271
583	7.4	10 10.27	3.6432	0.0607	54 47 7.9	19.122	0.168	82.4	597 751 755 757	54 258
584	8.2	10 24.85	3.6139	0.0570	53 15 28.0	19.115	0.168	75.9	447 448	53 271
585	8.9	10 30.59	3.5854	0.0536	51 43 45.2	19.112	0.167	78.6	614 704 705	51 274
586	8.8	1 10 58.61	+3 6446	+0.0603	+ 54 33 10.7	+19.100	−0.170	81.9	598 749 750	54 260
587	8.9	11 15.64	3.6542	0.0612	54 53 52.3	19.093	0.171	77.9	599 601	54 261
588	9.0	11 15.85	3.5827	0.0527	51 17 41.2	19.092	0.168	77.9	602 603	[51 277]
589	9.1	11 18.07	3.5828	0.0527	51 16 57.2	19.092	0.168	77.9	602 603	51 278
590	9.0	11 19.78	3.6179	0.0568	53 6 57.3	19.091	0.170	77.9	604 605	53 274
591	8.8	1 11 22.39	+3.6324	+0.0585	+ 53 49 22.0	+19.090	−0.170	75.9	447 448	53 275
592	8.8	11 23.91	3.5777	0.0521	50 57 54.2	19.089	0.168	76.1	5 obs. [3]	50 254
593	9.3	11 47.87	3.5658	0.0505	50 8 44.5	19.078	0.168	76.2	200 610 611	50 255
594	8.0	12 28.26	3.6045	0.0544	52 0 32.2	19.060	0.172	77.9	602 603	51 282
595	9.0	12 32.26	3.6279	0.0571	53 10 21.5	19.058	0.173	75.9	447 448	53 278
596	7.4	1 12 38.28	+3.5956	+0.0533	+ 51 28 25.8	+19.055	−0.172	83.5 82.9	5 obs. [4]	51 283
597	9.4	12 44.38	3.6552	0.0602	54 24 32.1	19.053	0.175	77.9	599 601	54 266
598	8.7	12 47.06	3.6106	0.0549	52 12 25.2	19.051	0.173	77.9	597 598	52 306
599	7.6	12 51.52	3.5916	0.0527	51 10 34.0	19.049	0.172	79.3 80.9	5 obs. [5]	51 285
600	6.9	12 56.72	3.6546	0.0600	54 18 28.1	19.047	0.175	78.0	613 614	54 268

[1] Z. 606 607 751 755 757 [2] Z. 447 448 604 605 749 750 [3] Z. 8 12 14 751 753
[4] Z. 605 751 753 908α 911 [5] Z. 200α 610 611 749 750

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
601	7.6	1h 13m 7.89	+3.5890	+0.0522	+ 50° 56′ 17.1	+19.042	−0.172	70.9	8 10 12 14	50 260
602	7.2	13 23.26	3.6509	0.0592	53 58 22.0	19.035	0.176	75.9	447 448	53 281
603	9.5	13 23.42	3.6313	0.0569	53 1 49.2	19.035	0.175	84.4	753 755 757 910	— —
604	9.0	13 23.73	3.6666	0.0611	54 41 53.2	19.035	0.176	78.0	617 618	54 269
605	7.6	13 25.70	3.5984	0.0531	51 19 49.2	19.034	0.174	77.9	602 603	51 286
606	9.5	1 13 28.69	+3.6322	+0.0570	+ 53 2 33.1	+19.032	−0.175	83.5 82.9	5 obs. [1]	52 311
607	9.2	14 8.47	3.5867	0.0514	50 26 24.8	19.014	0.174	70.9	8 10	50 262
608	9.0	14 14.57	3.6234	0.0554	52 19 36.1	19.011	0.176	78.0	605 606 613 614	52 312
609	9.1	14 16.13	3.6581	0.0594	53 59 51.6	19.010	0.178	75.9	447 448	53 283
610	8.9	14 30.98	3.5803	0.0504	49 56 59.0	19.003	0.175	70.9	12 14	49 359
611	8.8	1 14 40.37	+3.6329	+0.0562	+ 52 38 42.0	+18.999	−0.178	77.9	597 598	52 315
612	7.9	14 54.70	3.6046	0.0529	51 7 19.3	18.992	0.177	76.2	200 610 611	51 291
613	9.0	15 29.26	3.6654	0.0594	53 54 22.6	18.976	0.181	75.9	447 448	53 289
614	8.8	15 29.38	3.6886	0.0621	54 56 45.9	18.976	0.182	78.0	613 614	54 274
615	8.7	15 29.42	3.6424	0.0567	52 49 10.2	18.976	0.180	78.2	6 obs. [2]	52 322
616	8.6	1 15 37.52	+3.6284	+0.0550	+ 52 4 59.6	+18.972	−0.180	77.9	610 611	51 293
617	8.4	15 46.73	3.6308	0.0552	52 9 9.8	18.968	0.180	78.9	717 718 719 720	52 323
618	9.0	16 6.12	3.6631	0.0587	53 35 17.8	18.959	0.182	78 0	617 618	53 291
619	9.4	16 9.82	3.6095	0.0526	50 55 39.0	18.957	0.180	70.9	8 10	50 266
620	8.4	16 21.71	3.6676	0.0590	53 42 23.7	18.951	0.183	77.4	447 448 710 711	53 293
621	8.5	1 16 28.32	+3.6368	+0.0554	+ 52 12 14.5	+18.948	−0.182	78.9	5 obs. [3]	52 330
622	9.6	16 36.18	3.5945	0.0507	49 58 37.0	18.944	0.180	70.9	12 14	49 367
623	8.1	16 36.44	3.6047	0.0518	50 31 13.0	18.944	0.181	76.9	200 706 707	50 267
624	9.3	16 40.59	3.6694	0.0590	53 40 38.2	18.942	0.184	81.4	710 711 758 760	53 296
625	8.9	16 48.73	3.6274	0.0542	51 37 5.2	18.938	0.182	77.9	610 611	51 296
626	9.2	1 16 51.83	+3.6465	+0.0563	+ 52 32 25.4	+18.937	−0.183	78.0	615 616	[52 332]
627	8.8	16 52.44	3.6880	0.0610	54 26 45.7	18.936	0.185	81.0	613 614 755 757	54 279
628	8.8	16 52.89	3.6465	0.0562	52 31 59.6	18.936	0.183	78.0	615 616	52 333
629	8.3	16 57.99	3.6001	0.0511	50 9 0.6	18.934	0.181	78.9	708 709	50 269
630	9.0	16 59.53	3.6857	0.0606	54 18 21.8	18.933	0.186	78.0	617 618	54 280
631	8.2	1 17 7.80	+3.6857	+0.0605	+ 54 15 32.7	+18.929	−0.186	78.0	617 618	54 282
632	9.0	17 21.90	3.6759	0.0592	53 44 17.8	18.922	0.186	75.9	447 448	53 297
633	8.6	17 22.39	3.6503	0.0563	52 32 42.7	18.922	0.184	77.9	605 606	52 334
634	8.9	17 26.19	3.6666	0.0581	53 17 16.4	18.920	0.185	78.0	613 614	53 298
635	9.0	17 37.56	3.6568	0.0569	52 45 58.8	18.915	0.185	78.0	615 616	52 338
636	8.4	1 17 42.50	+3.6220	+0.0530	+ 51 1 52.3	+18.912	−0.184	70.9	8 10	50 273
637	9.0	17 46.90	3.6918	0.0607	54 18 18.0	18.910	0.188	77.9	608 609	54 284
638	8.9	18 22.68	3.6407	0.0546	51 44 14.5	18.893	0.186	73.6	200 265 266	51 302
639	9.0	18 48.30	3.6651	0.0570	52 45 31.0	18.880	0.188	77.9	599 601	52 340
640	8.0	18 50.41	3.6594	0.0564	52 28 46.2	18.879	0.188	77.9	605 606 608 609	52 341
641	9.2	1 19 22.61	+3.6274	+0.0526	+ 50 44 4.4	+18.863	−0.188	70.9	8 10	50 277
642	9.0	19 28.94	3.7244	0.0632	55 7 54.9	18.860	0.193	83.9	753 758 760	55 331
643	9.2	19 40.84	3.7065	0.0610	54 18 46.7	18.854	0.192	76.9	447 448 599 601	54 292
644	8.2	19 57.93	3.6399	0.0536	51 9 33.8	18.846	0.190	73 6	200 265 266	51 308
645	9.5	19 58.95	3.7129	0.0616	54 29 18.9	18.845	0.193	77.9	603 608 609	— —
646	8.9	1 20 23.66	+3.6266	+0.0520	+ 50 21 8.1	+18.833	−0.190	70.9	8 10	50 280
647	9.0	20 35.35	3.6796	0.0574	52 49 42.9	18.827	0.193	81.5	5 obs. [4]	52 347
648	9.2	20 35.94	3.6795	0.0574	52 49 25.5	18.827	0.193	81.5 80.9	5 obs. [5]	52 348
649	9.4	20 41.09	3.6954	0.0591	53 30 22.4	18.824	0.194	77.9	599 601	53 308
650	8.6	20 45.08	3.6234	0.0514	50 3 52.4	18.822	0.191	70.9	12 14	49 388

[1] Z. 605 753 757 909α 910 [2] Z. 597 598 605 606 710 711 [3] Z. 714 717 718 719 720
[4] Z. 597 598 753 758 760 [5] Z. 597 598 753 758 760α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
651	8.9	1h 20m 47.29	+3.7201	+0.0618	+ 54° 31′ 49.7	+18.821	−0.195	84.0	762	54° 295
652	9.0	20 49.51	3.6930	0.0588	53 21 14.2	18.820	0.194	77.9	605 606	53 309
653	8.7	20 58.55	3.6441	0.0534	51 1 50.1	18.815	0.192	75.6	16 608 609	50 282
654	8.2	21 3.02	3.7245	0.0621	54 37 49.6	18.813	0.196	75.9	447 448	54 297
655	8.8	21 3.94	3.6489	0.0539	51 14 8.6	18.813	0.192	73.4	200 266	51 313
656	8.8	1 21 10.32	+3.6571	+0.0547	+ 51 35 31.8	+18.809	−0.193	78.0	617 618	51 314
657	9.1	21 12.40	3.7344	0.0631	54 59 9.3	18.808	0.197	77.9	602 603	} 54 299
658	9.1	21 18.76	3.7352	0.0631	54 59 8.6	18.805	0.197	77.9	602 603	
659	7.6	21 20.79	3.6468	0.0535	51 2 14.7	18.804	0.193	70.9	8 10	50 286
660	8.2	21 31.18	3.7063	0.0598	53 42 38.0	18.799	0.196	78.0	613 614	53 310
661	8.8	1 21 36.58	+3.7038	+0.0594	+ 53 34 31.6	+18.796	−0.196	78.6	619 706 707	53 311
662	8.8	21 38.25	3.7061	0.0597	53 39 48.6	18.795	0.197	77.9	599 601	53 312
663	8.6	22 0.48	3.7216	0.0611	54 12 10.5	18.784	0.198	78.0	617 618	54 300
664	8.8	22 0.94	3.7160	0.0605	53 58 0.8	18.784	0.198	77.9	605 606	53 313
665	8.4	22 3.35	3.6820	0.0568	52 27 45.6	18.782	0.196	78.4	597 598 706 707	52 355
666	8.7	1 22 7.66	+3.7262	+0.0615	+ 54 21 36.2	+18.780	−0.199	78.2	602 603 709	54 302
667	8.7	22 8.76	3.6880	0.0574	52 42 24.1	18.780	0.197	80.7	5 obs. [1]	52 356
668	9.0	22 9.13	3.6979	0.0584	53 8 32.0	18.780	0.197	77.9	608 609	53 314
669	9.0	22 9.54	3.6914	0.0577	52 51 19.0	18.779	0.197	78.0	615 616	52 357
670	9.0	22 21.79	3.6895	0.0574	52 42 1.6	18.773	0.197	80.6	710 711 757	52 358
671	9.0	1 22 22.94	+3.7106	+0.0596	+ 53 37 8.7	+18.772	−0.198	78.0	613 614	53 316
672	8.8	22 26.80	3.6846	0.0568	52 27 11.3	18.770	0.197	78.9	706 707	52 359
673	7.9	22 34.91	3.7093	0.0594	53 30 2.7	18.766	0.199	78.0	601 617 618	53 317
674	8.8	22 47.84	3.6994	0.0582	53 0 5.4	18.760	0.199	77.9	597 598	52 362
675	8.9	22 54.35	3.6660	0.0546	51 26 54.2	18.756	0.197	73.6	200 266 267 268	51 317
676	8.5	1 23 7.10	+3.6380	+0.0515	+ 50 1 22.8	+18.750	−0.196	70.9	5 obs. [2]	49 401
677	8.8	23 22.35	3.7150	0.0595	53 29 44.8	18.742	0.201	77.9	602 603	53 319
678	8.9	23 41.96	3.7198	0.0598	53 35 49.1	18.732	0.202	77.9	601 608 609	53 320
679	8.8	24 1.55	3.6852	0.0559	51 58 37.9	18.721	0.201	74.5	5 obs. [3]	51 322
680	9.4	24 2.50	3.7164	0.0592	53 20 48.2	18.721	0.202	77.9	597 598	53 322
681	7.8	1 24 14.30	+3.6833	+0.0556	+ 51 49 30.4	+18.715	−0.201	83.9	755 757	51 323
682	7.9	24 15.95	3.7187	0.0593	53 22 26.4	18.714	0.203	77.9	605 606	53 323
683	8.9	24 36.14	3.7323	0.0605	53 50 20.2	18.703	0.204	77.9	608 609	53 325
684	9.0	24 46.11	3.7398	0.0612	54 5 54.2	18.698	0.205	78.0	601 613 614	} 53 326
685	8.8	24 46.61	3.7400	0.0612	54 6 10.0	18.698	0.205	78.0	601 613 614	
686	8.8	1 24 51.30	+3.6525	+0.0520	+ 50 10 47.8	+18.695	−0.201	70.9	8 10 12 14	50 299
687	9.1	25 4.59	3.7061	0.0574	52 34 44.1	18.688	0.204	79.9	605 606 750	52 370
688	8.9	25 11.19	3.7604	0.0631	54 47 39.3	18.685	0.207	78.4	615 616 706 707	54 312
689	8.0	25 12.19	3.7026	0.0570	52 23 21.4	18.684	0.204	81.0	617 749	52 371
690	9.0	25 13.10	3.7175	0.0585	53 1 39.4	18.684	0.205	77.9	608 609	52 372
691	9.0	1 25 16.55	+3.7322	+0.0600	+ 53 37 41.3	+18.682	−0.206	77.9	597 598	} 53 327
692	9.2	25 17.34	3.7324	0.0601	53 37 55.0	18.682	0.206	77.9	597 598	
693	7.5	25 24.85	3.7720	0.0642	55 10 27.0	18.678	0.208	83.9	755 757	55 354
694	8.8	25 26.00	3.7632	0.0632	54 49 34.2	18.677	0.208	78.9	706 707	54 314
695	6.6	25 32.81	3.7507	0.0618	54 18 3.4	18.673	0.207	78.9	708α 709 710 711	54 315
696	9.0	1 25 40.68	+3.7253	+0.0590	+ 53 13 7.8	+18.669	−0.206	77.4	504 506 599 601	53 328
697	8.7	25 42.53	3.7703	0.0638	55 1 8.8	18.668	0.209	78.0	613 614	54 317
698	8.2	26 6.81	3.7163	0.0578	52 42 7.2	18.655	0.207	77.9	605 606	52 377
699	9.2	26 19.48	3.7023	0.0563	52 1 38.4	18.648	0.207	76.2	200 610 611	51 330
700	8.6	26 26.50	3.6845	0.0544	51 11 28.6	18.645	0.206	73.9	266 267 268	51 331

[1] Z. 611 710 711 755 757 [2] Z. 8 10 12 14 16 [3] Z. 200 266 267 268 611

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
701	9.0	1h 26m 35s.72	+3s.7582	+0s.0619	+ 54° 16′ 53″.8	+18″.640	−0″.210	77.9	597 598 599 601	54° 321
702	9.1	26 52.78	3.7045	0.0562	51 57 16.0	18.631	0.208	78.0	613 614	51 332
703	9.0	27 1.10	3.6954	0.0540	51 30 44.7	18.626	0.208	80.6	610 611 911	51 334
704	8.9	27 23.72	3.6910	0.0545	51 11 47.2	18.614	0.208	79.7	5 obs. [1]	51 337
705	8.9	27 27.61	3.7199	0.0574	52 26 51.0	18.612	0.210	77.9	605 606	52 380
706	9.2	1 27 31.59	+3.7192	+0.0573	+ 52 23 47.6	+18.609	−0.210	78.0	615 616	52 381
707	5.6	27 33.73	3.7267	0.0580	52 42 15.8	18.608	0.211	78.0	613 614	52 382
708	8 7	27 40.04	3.7615	0.0615	54 5 41.2	18.605	0.213	77.4	504 506 599 601	53 335
709	7.4	27 49.66	3.7012	0.0553	51 31 24.6	18.600	0.210	77.9	610 611	51 338
710	9.0	28 8.39	3.7711	0.0622	54 19 48.4	18.589	0.214	77.9	597 598	54 324
711	8.8	1 28 8.90	+3.7659	+0.0617	+ 54 7 41.6	+18.589	−0.214	77.8	590 594	54 325
712	7.4	28 32.39	3.7670	0.0615	54 3 22.7	18.576	0.215	77.4	504 506 599 601	53 339
713	7.6	28 51.75	3.6989	0.0544	51 6 32.4	18.566	0.212	73.9	266 267 268	51 339
714	8.8	29 1.87	3.6983	0.0543	51 1 48.6	18.560	0.212	70.9	8 12 14	50 313
715	8.5	29 6.03	3.7319	0.0576	52 28 0.8	18.558	0.214	78.0	613 614	52 387
716	8.9	1 29 7.61	+3.7765	+0.0622	+ 54 15 19.4	+18.557	−0.217	80.9	590 594 750 751	54 328
717	8.7	29 12.20	3.6904	0.0534	50 37 16.8	18.554	0.212	75.9	5 obs. [2]	50 314
718	8.8	29 22.02	3.6930	0.0536	50 41 31.2	18.549	0.213	78.9	713 714	50 315
719	8.8	29 26.58	3.7749	0.0618	54 6 0.0	18.546	0.217	77.9	599 601	53 344
720	7.8	29 27.08	3.7836	0.0627	54 25 54.4	18.546	0.218	79.5	5 obs. [3]	54 331
721	9.3	1 29 32.05	+3.7873	+0.0630	+ 54 32 56.6	+18.543	−0.218	81.9	605 755 757	54 332
722	9.4	29 32.17	3.7338	0.0576	52 25 4.6	18.543	0.215	78.6	615 710 711	52 389
723	9.2	29 36.24	3.7242	0.0565	51 59 32.0	18.541	0.215	73.9	266 267 268	51 344
724	8.9	29 38.73	3.7881	0.0630	54 32 48.6	18.540	0.219	83.2	6 obs. [4]	54 333
725	8.9	30 10.04	3.6824	0.0522	49 58 5.7	18.522	0.214	70.9	8 12 14	49 422
726	8.4	1 30 16.93	+3.7773	+0.0615	+ 53 57 2.6	+18.518	−0.219	77.9	597 598	53 349
727	8.7	30 32.38	3.7654	0.0601	53 24 51.4	18.510	0.219	77.9	599 601	53 351
728	8.8	30 37.22	3.7967	0.0633	54 35 43.1	18.507	0.221	80.9	590 594 750 751	54 338
729	8.9	30 43.31	3.7974	0.0633	54 35 26.5	18.504	0.221	79.9	590 594 751	54 340
*730	8.6	30 47.01	3.7281	0.0562	51 48 49.2	18.501	0.218	76.2	200 610 611	51 348
731	8.4	1 30 49.80	+3.7321	+0.0566	+ 51 58 8.0	+18.500	−0.218	84.0	758 760	51 350
732	9.0	30 50.84	3.7301	0.0564	51 52 55.0	18.499	0.218	76.4	266 268 706 707	51 349
733	9.2	30 53.65	3.7485	0.0582	52 37 51.9	18.498	0.219	77.9	604 605 606	52 392
734	8.7	30 57.12	3.7510	0.0584	52 43 11.4	18.496	0.219	78.0	615 616	52 394
735	8.6	30 57.49	3.7482	0.0582	52 36 7.4	18.495	0.219	78.0	613 614	52 393
736	8.4	1 31 2.38	+3.7426	+0.0575	+ 52 20 46.2	+18.493	−0.219	78.7	5 obs. [5]	52 395
737	8.8	31 13.85	3.7373	0.0569	52 4 16.4	18.486	0.219	78.9	710 711	51 351
738	7.2	31 19.60	3.7853	0.0616	53 57 49.4	18.483	0.222	77.9	597 598	53 354
739	9.2	31 23.11	3.7284	0.0559	51 39 6.8	18.481	0.219	75.9	146 610 611	51 354
740	8.8	31 24.16	3.7176	0.0548	51 11 7.2	18.480	0.218	78.9	713 714 718	51 356
741	9.1	1 31 26.48	+3.7446	+0.0575	+ 52 19 1.2	+18.479	−0.220	78.0	615 616	} 52 397
742	9.4	31 27.12	3.7448	0.0575	52 19 8.8	18.479	0.220	78.0	615 616	
743	8.4	31 30.52	3.7746	0.0605	53 29 55.8	18.477	0.222	77.9	599 601	53 355
744	8.1	31 39.58	3.7453	0.0574	52 16 47.4	18.472	0.221	78.0	606 613 614	52 399
745	7.0	31 40.09	3.8198	0.0650	55 8 52.3	18.471	0.225	83.9	751	55 375
746	7.7	1 31 40.31	+3.7298	+0.0559	+ 51 37 50.8	+18.471	−0.220	82.9	5 obs. [6]	51 357
747	8.2	31 52.89	3.8174	0.0646	55 0 7.2	18.464	0.225	77.8	590 594	54 344
748	8.7	31 56.92	3.7470	0.0574	52 16 3.6	18.462	0.221	77.9	605 606	52 400
749	7.6	32 0.44	3.7412	0.0568	52 0 43.4	18.460	0.221	73.0	200 204	51 360
750	9.1	32 6.02	3.7346	0.0561	51 42 30.5	18.457	0.221	73.9	266 267 268	51 361

[1] Z. 200 267 751 755 757 [2] Z. 16 200 619 706 707 [3] Z. 597 598 610 611 911
[4] Z. 606 750 751 753 754 910 [5] Z. 619 717 718 719 720 [6] Z. 717 753 754 755 757

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
751	9.2	$1^h 32^m 8^s.68$	+3ˢ.7903	+0ˢ.0616	+ 53°55′22″.2	+18″.455	−0″.224	77.9	597 598	53°360
752	8.3	32 9.25	3.8040	0.0630	54 26 13.5	18.455	0.225	77.9	5 obs. [1]	54 346
753	6.8	32 14.42	3.7880	0.0613	53 48 36.2	18.452	0.224	78.0	613 614	53 362
754	6.8	32 16.99	3.7734	0.0598	53 13 59.1	18.450	0.224	76.9	363 608 609	53 363
755	7.1	32 17.14	3.7990	0.0624	54 12 46.1	18.450	0.225	78.0	615 616	54 347
756	8.1	1 32 29.19	+3.7259	+0.0551	+ 51 13 46.7	+18.443	−0.221	78.5	5 obs. [2]	51 363
757	9.2	32 29.50	3.7809	0.0605	53 27 53.5	18.443	0.224	77.9	599 601	53 364
758	7.5	32 34.74	3.8037	0.0627	54 18 24.4	18.440	0.226	77.8	590 594	54 350
759	8.9	32 35.18	3.8099	0.0634	54 31 52.0	18.440	0.226	77.9	605 606	54 349
760	8.6	32 35.60	3.7049	0.0530	50 16 59.0	18.440	0.220	70.9	8 10 16	50 323
761	8.6	1 32 36.59	+3.7425	+0.0566	+ 51 53 41.7	+18.439	−0.223	75.0	204 450 451	51 364
762	8.4	32 54.56	3.7090	0.0532	50 22 32.8	18.429	0.221	70.9	12 14	50 325
763	7.8	32 56.65	3.7706	0.0592	52 56 10.4	18.428	0.225	77.9	597 598	52 404
764	9.0	33 11.07	3.7319	0.0552	51 17 6.0	18.419	0.223	71.9	146 147	51 368
765	8.9	33 34.90	3.7258	0.0544	50 54 46.2	18.406	0.224	72.9	8 10 362 363	50 326
766	9.0	1 33 40.29	+3.7511	+0.0569	+ 51 57 1.2	+18.402	−0.225	74.4	200 451	51 370
767	9.2	33 42.18	3.7715	0.0588	52 45 35.4	18.401	0.226	77.9	597 598	[52 405]
768	8.7	33 48.86	3.7718	0.0588	52 44 35.8	18.397	0.227	83.9	749 750	52 406
769	9.2	34 12.40	3.7936	0.0607	53 28 45.2	18.384	0.229	77.6	507 608 609	53 368
770	9.0	34 12.99	3.7778	0.0591	52 52 6.9	18.383	0.228	77.9	599 601	52 412
771	8.8	1 34 14.10	+3.8140	+0.0627	+ 54 13 49.3	+18.383	−0.230	77.8	590 594	54 358
772	9.0	34 15.76	3.7636	0.0577	52 17 38.4	18.382	0.227	73.9	266 268	52 413
773	9.2	34 16.42	3.7945	0.0608	53 29 37.2	18.381	0.229	77.9	608 609	[53 369]
774	9.6	34 25.88	3.8108	0.0623	54 3 41.6	18.376	0.230	78.0	615 616	53 370
775	9.0	34 31.17	3.7522	0.0565	51 45 23.5	18.373	0.227	77.9	605 606	51 373
776	9.2	1 34 42.12	+3.7483	+0.0560	+ 51 32 47.2	+18.366	−0.227	76.0	450 451	51 376
777	9.0	34 48.97	3.7608	0.0571	52 1 28.4	18.362	0.228	73.0	200 204	51 377
778	8.9	34 53.47	3.7193	0.0532	50 15 50.8	18.360	0.226	70.9	8 12 14	50 334
779	9.0	35 13.76	3.8315	0.0638	54 35 44.0	18.348	0.233	77.4	505 507 590 594	[54 362]
780	9.1	35 26.17	3.7580	0.0565	51 44 21.1	18.340	0.229	77.9	605 606	51 381
781	8.8	1 35 28.41	+3.8328	+0.0638	+ 54 34 29.6	+18.339	−0.234	77.2	505 507 590	54 364
782	8.9	35 35.39	3.7822	0.0588	52 39 39.0	18.335	0.231	77.9	5 obs. [3]	52 418
783	8.8	35 35.66	3.7511	0.0558	51 25 1.9	18.335	0.230	76.0	450 451	51 382
784	8.0	35 37.56	3.8454	0.0651	54 58 50.8	18.334	0.235	77.9	597 598	54 365
785	7.0	35 40.66	3.8535	0.0658	55 14 47.5	18.332	0.236	83.9	751 753 754	55 391
786	7.0	1 35 42.70	+3.7727	+0.0578	+ 52 15 17.0	+18.331	−0.231	77.9	599 601	52 420
787	6.9	35 44.64	3.7393	0.0546	50 53 5.0	18.330	0.229	71.0	16 17 19	50 336
788	**4.0**	**35 50.12**	**3.7206**	**0.0528**	**50 3 28.8**	**18.326**	**0.228**		**Fund. Cat.**	**49 444**
789	8.8	35 50.33	3.8011	0.0604	53 19 4.6	18.326	0.233	74.9	362 363	53 375
790	8.2	35 58.91	3.7198	0.0526	49 58 57.6	18.321	0.229	71.9	146 147	49 445
*791	8.8	1 36 3.98	+3.8294	+0.0631	+ 54 17 50.9	+18.318	−0.235	77.9	608 609 610 611	54 367
792	8.5	36 10.04	3.7670	0.0570	51 54 9.0	18.314	0.232	73.0	200 204	51 384
793	7.0	36 11.26	3.8292	0.0630	54 15 23.0	18.314	0.235	83.9	749 750	54 368
794	8.3	36 23.75	3.7852	0.0586	52 33 31.7	18.306	0.233	73.9	266 267 268	52 424
795	9.6	36 37.55	3.7353	0.0538	50 28 28.7	18.298	0.231	70.9	12 14	50 340
796	9.0	1 36 44.26	+3.7529	+0.0553	+ 51 10 33.5	+18.294	−0.232	77.9	605 606	51 388
797	9.1	36 46.64	3.7607	0.0560	51 29 3.2	18.293	0.233	76.0	450 451	51 387
798	8.4	36 54.60	3.8422	0.0638	54 31 39.5	18.288	0.238	77.4	505 507 590 594	54 370
799	8.8	36 55.78	3.8333	0.0629	54 12 29.7	18.287	0.237	77.9	608 609	54 371
800	9.0	37 7.30	3.7688	0.0566	51 43 3.8	18.280	0.234	77.9	602 603	51 390

[1] Z. 505 507 619 706 707 [2] Z. 610 611 718 719 720 [3] Z. 266 267 268 749 750

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
801	9.2	1h 37m 27s.42	+3s.7732	+0s.0568	+ 51° 48′ 7″.7	+18″.268	−0″.235	73.0	200 204	51° 392
802	8.8	37 40.01	3.7914	0.0585	52 27 35.4	18.261	0.236	73.9	266 268	52 430
803	9.7	37 50.04	3.7798	0.0572	51 57 41.4	18.255	0.236	74.6	146 450 451	51 393
804	8.6	37 55.39	3.8548	0.0616	54 42 13.7	18.251	0.241	77.4	505 507 590 594	54 372
805	8.9	38 0.84	3.8305	0.0620	53 49 24.2	18.248	0.239	74.9	362 363	53 382
806	8.7	1 38 5.57	+3.8397	+0.0628	+ 54 7 52.2	+18.245	−0.240	78.0	597 598 613 614	54 373
807	8.6	38 7.96	3.8084	0.0598	52 58 46.6	18.244	0.238	77.9	599 601	52 433
808	9.2	38 14.20	3.8464	0.0634	54 19 50.3	18.240	0.241	77.9	602 603	54 374
809	9.0	38 21.88	3.8417	0.0629	54 7 50.7	18.235	0.241	78.0	597 598 613 614	54 375
810	8.4	38 22.62	3.7691	0.0560	51 23 35.7	18.235	0.236	71.9	144 145	51 399
811	9.1	1 39 3.91	+3.7516	+0.0540	+ 50 29 47.4	+18.210	−0.237	73.3	5 obs. [1]	50 352
812	8.6	39 9.75	3.7960	0.0580	52 14 28.2	18.206	0.240	73.9	266 268	52 439
813	8.6	39 13.25	3.7631	0.0550	50 55 37.6	18.204	0.238	70.9	12 14	50 353
814	8.5	39 17.94	3.8755	0.0656	55 3 15.5	18.201	0.245	77.4	505 507 590 594	54 377
815	8.5	39 21.65	3.7471	0.0534	50 13 58.8	18.199	0.237	71.0	16 17 19	50 354
816	8.6	1 39 26.04	+3.7542	+0.0541	+ 50 30 22.7	+18.196	−0.238	80.3	204 749 750	50 355
817	8.4	39 36.11	3.7461	0.0532	50 7 29.8	18.190	0.238	71.9	146 147	50 357
818	7.6	39 38.86	3.8299	0.0610	53 22 42.6	18.188	0.243	74.9	362 363	53 386
819	8.3	39 59.38	3.8292	0.0607	53 15 50.8	18.176	0.244	78.6	601 710 711	53 388
820	8.5	40 2.43	3.7768	0.0558	51 15 43.9	18.174	0.241	71.9	144 145	51 406
821	8.2	1 40 16.76	+3.8837	+0.0658	+ 55 4 52.6	+18.165	−0.248	77.4	505 507 590 594	54 379
822	8.3	40 17.61	3.8139	0.0591	52 37 25.8	18.164	0.243	75.3	266 450 451	52 441
823	8.7	40 26.27	3.7653	0.0546	50 41 53.5	18.159	0.241	70.9	8 10 19	50 359
824	9.6	40 37.02	3.7616	0.0541	50 29 52.3	18.152	0.241	70.9	12 14	50 360
825	9.0	40 46.15	3.8317	0.0605	53 9 14.7	18.147	0.246	74.9	362 363	53 391
826	8.3	1 40 47.42	+3.8650	+0.0636	+ 54 19 25.8	+18.146	−0.248	77.9	602 603	54 380
827	9.1	40 52.30	3.8718	0.0642	54 31 59.5	18.143	0.248	80.3 80.9	5 obs. [2]	54 381
828	8.6	41 2.75	3.8726	0.0642	54 31 5.6	18.136	0.249	80.3	5 obs. [3]	54 383
829	9.4	41 3.84	3.8446	0.0616	53 32 37.6	18.136	0.247	77.9	599 601	53 392
830	8.9	41 16.70	3.8380	0.0608	53 15 4.2	18.128	0.247	77.9	608 609 610 611	53 394
831	8.6	1 41 34.79	+3.8412	+0.0609	+ 53 17 29.2	+18.116	−0.248	83.9	755 758 760	53 395
832	9.2	41 41.07	3.8694	0.0635	54 14 53.2	18.112	0.250	77.9	590 594	— —
833	9.2	41 51.19	3.8706	0.0635	54 14 55.0	18.106	0.250	80.4	505 507 749 750	54 385
834	9.1	42 10.67	3.8526	0.0616	53 32 42.8	18.094	0.250	74.9	362 363	53 396
835	7.9	42 20.33	3.8845	0.0646	54 35 43.2	18.088	0.252	78.0	602 603 613 614	54 388
836	8.4	1 42 24.24	+3.8422	+0.0605	+ 53 7 14.2	+18.086	−0.250	77.9	599 601	53 398
837	9.1	42 28.62	3.7949	0.0562	51 20 37.2	18.083	0.247	71.9	144 145 146 147	51 411
838	9.0	42 28.85	3.8776	0.0638	54 19 40.8	18.082	0.252	77.9	605 606	54 389
839	9.3	42 38.31	3.8106	0.0575	51 54 12.2	18.077	0.248	75.0	200 450 451	51 412
840	8.8	42 44.40	3.8576	0.0618	53 34 42.5	18.073	0.252	77.9	608 609	53 399
841	9.4	1 42 48.74	+3.8585	+0.0619	+ 53 35 34.4	+18.070	−0.252	77.9	608 609	53 400
842	8.8	42 50.65	3.7835	0.0550	50 48 15.5	18.069	0.247	70.9	5 obs. [4]	50 370
843	8.4	42 51.19	3.8290	0.0591	52 31 54.0	18.068	0.250	73.9	266 268	52 446
844	8.4	42 53.28	3.8544	0.0614	53 25 44.8	18.067	0.252	74.9	362 363	53 401
845	8.6	42 54.54	3.8147	0.0577	51 59 9.5	18.066	0.249	77.9	597 598	51 415
846	5.9	1 42 57.50	+3.7974	+0.0561	+ 51 18 57.6	+18.064	−0.248	75.9	149 610 611	51 416
847	8.0	43 4.63	3.8957	0.0652	54 47 6.8	18.060	0.255	77.2	505 507 590	54 392
848	8.9	43 8.38	3.8057	0.0568	51 35 18.9	18.058	0.249	78.0	613 614	51 417
849	7.3	43 16.19	3.8826	0.0638	54 18 14.5	18.053	0.254	77.9	602 603 605	54 393
850	8.0	43 29.63	3.8849	0.0639	54 19 24.7	18.044	0.255	80.9	6 obs. [5]	54 394

[1] Z. 8 10 200 450 451 [2] Z. 590α 594 606 755 757 [3] Z. 590 594 606 749 750
[4] Z. 8 10 16 17 19 [5] Z. 602 603 606 751 755 757

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
851	8.7	1h 43m 35.s10	+3.s8541	+0.s0610	+ 53° 14′ 48.″5	+18.″040	−0.″253	77.9	599 601	53° 402
852	8.1	43 36.54	3.7981	0.0559	51 10 46.0	18.040	0.250	74.6	144 450 451	51 418
853	9.5	43 45.82	3.7747	0.0537	50 13 15.8	18.034	0.249	70.9	10 12 14	50 377
854	6.1	43 47.44	3.8932	0.0645	54 31 38.4	18.033	0.256	77.9	608 609	54 396
855	9.0	43 50.29	3.8455	0.0600	52 52 44.8	18.031	0.253	77.9	6 obs. [1]	52 450
856	8.9	1 43 51.39	+3.8452	+0.0600	+ 52 51 58.1	+18.030	−0.253	77.9	6 obs. [2]	52 451
857	8.9	43 54.55	3.8514	0.0605	53 4 18.8	18.028	0.254	84.0	762 763 764	52 452
858	8.7	43 56.87	3.7849	0.0546	50 34 40.3	18.027	0.250	76.3	200 615 616	50 378
859	8.5	43 58.39	3.8152	0.0572	51 44 20.6	18.026	0.252	77.9	597 598	51 420
860	8.8	44 1.66	3.8714	0.0623	53 44 24.2	18.024	0.256	74.9	362 363	53 404
861	8.9	1 44 5.82	+3.9032	+0.0653	+ 54 46 54.2	+18.021	−0.258	77.2	505 507 590	54 397
862	6.5	44 12.98	3.7764	0.0536	50 10 25.8	18.016	0.250	80.9	147 751 758 760	50 379
863	7.6	44 13.35	3.9020	0.0650	54 42 43.0	18.016	0.258	77.9	602	54 398
864	8.9	44 17.49	3.8348	0.0588	52 23 1.5	18.013	0.254	80.3	5 obs. [3]	52 454
865	7.6	44 19.02	3.8602	0.0611	53 16 53.4	18.012	0.255	77.9	599 601	53 405
866	8.6	1 44 22.43	+3.8350	+0.0588	+ 52 22 10.3	+18.010	−0.254	80.3	5 obs. [4]	52 456
867	9.1	44 46.52	3.8623	0.0610	53 14 30.2	17.995	0.256	74.9	362 363	53 406
*868	6.2	44 51.89	3.7979	0.0552	50 51 22.5	17.991	0.252	70.9	8 10 12 14	50 381
869	9.8	45 8.59	3.8287	0.0578	51 57 3.0	17.980	0.255	72.0	148 149	51 426
870	9.0	45 17.72	3.8324	0.0581	52 2 56.6	17.975	0.256	73.0	200 204	51 427
871	9.1	1 45 19.36	+3.8385	+0.0586	+ 52 15 55.6	+17.974	−0.256	73.9	266 268 270	52 459
872	9.1	45 21.42	3.8323	0.0580	52 1 49.0	17.972	0.256	76.0	450 451	51 428
873	6.8	45 32.64	3.9202	0.0660	54 58 48.4	17.965	0.262	77.4	505 507 597 598	54 408
874	8.7	45 36.51	3.8697	0.0613	53 17 49.8	17.962	0.259	77.9	599 601	53 411
875	9.0	45 39.04	3.8798	0.0622	53 37 46.8	17.961	0.259	74.9	362 363	53 413
876	9.2	1 45 48.00	+3.8438	+0.0588	+ 52 20 18.8	+17.955	−0.257	77.9	602 603	52 461
877	8.4	46 15.80	3.8386	0.0581	52 2 18.2	17.937	0.258	71.9	144 145	51 433
878	8.8	46 19.62	3.8058	0.0552	50 47 57.8	17.934	0.256	70.9	8 10	50 388
879	8.4	46 30.36	3.8754	0.0613	53 16 31.4	17.927	0.261	77.9	597 598	53 416
880	9.0	46 35.56	3.9010	0.0636	54 6 43.7	17.924	0.263	77.4	505 507 590 594	54 413
881	8.8	1 46 41.82	+3.8002	+0.0545	+ 50 29 37.0	+17.920	−0.256	70.9	12 14	50 390
882	9.1	46 43.43	3.8912	0.0626	53 45 28.4	17.919	0.262	74.9	362 363	53 418
883	7.4	46 48.39	3.8863	0.0621	53 34 22.4	17.916	0.262	77.9	599 601	53 419
884	8.6	46 56.76	3.7950	0.0540	50 13 58.7	17.910	0.257	71.0	16 17	50 392
885	8.6	47 3.21	3.8326	0.0572	51 37 44.4	17.906	0.259	74.0	148 149 450 451	51 435
886	8.8	1 47 21.98	+3.8382	+0.0575	+ 51 45 29.2	+17.894	−0.260	71.9	146 147	51 436
887	8.0	47 29.76	3.9341	0.0661	54 57 46.2	17.888	0.267	77.4	505 507 590 594	54 415
888	8.6	47 31.42	3.9314	0.0658	54 52 9.4	17.887	0.267	77.9	597 598	54 416
889	8.0	47 35.04	3.9428	0.0668	55 12 45.8	17.885	0.268	83.9	753 754	55 440
890	8.3	47 35.70	3.8961	0.0625	53 42 53.0	17.884	0.265	74.9	362 363	53 420
891	7.3	1 47 43.64	+3.8220	+0.0559	+ 51 4 27.6	+17.879	−0.260	70.9	8 10	50 394
892	8.4	47 53.48	3.9396	0.0663	55 2 30.2	17.873	0.268	77.9	599 601	54 417
893	8.2	48 3.33	3.8779	0.0606	52 59 37.4	17.866	0.265	73.9	268 270	52 466
894	9.8	48 6.88	3.8119	0.0549	50 36 6.4	17.864	0.260	83.9	755 757	[50 396]
895	7.5	48 28.88	3.8720	0.0599	52 41 27.8	17.849	0.265	78.0	594 617 618	52 468
896	9.2	1 48 29.67	+3.8497	+0.0579	+ 51 54 16.9	+17.849	−0.264	77.0	450 451 599 601	51 440
897	8.5	48 32.53	3.8448	0.0575	51 43 3.6	17.847	0.264	77.9	605 608 609	51 441
898	8.8	48 36.32	3.7997	0.0536	50 0 45.0	17.844	0.261	70.9	12 14	49 503
899	9.3	48 36.88	3.8518	0.0580	51 56 54.1	17.844	0.264	83.9	751 760	[51 442]
900	8.0	48 46.22	3.8508	0.0579	51 52 34.4	17.838	0.264	72.0	148 149	51 444

[1] Z. 266 268 270 610 753 754 [2] Z. 266 268 270 610 753 754 [3] Z. 605 606 613 755 757
[4] Z. 605 606 613 755 757

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
901	9.7	1h 48m 49.50	+3.8519	+0.0579	+ 51° 54′ 18.8	+17.835	−0.264	85.3	758 914 915	51° 446
902	8.9	49 2.94	3.8561	0.0582	51 59 58.8	17.827	0.265	77.9	603 606	[51 448]
903	9.1	49 4.20	3.8110	0.0543	50 20 16.4	17.826	0.262	70.9	8 10	50 402
904	8.6	49 8.35	3.8070	0.0539	50 10 0.9	17.823	0.262	71.3	16 17 144	50 404
905	9.3	49 15.38	3.8892	0.0610	53 5 43.4	17.818	0.268	77.9	610 611	52 471
906	9.0	1 49 16.70	+3.8117	+0.0543	+ 50 18 59.1	+17.817	−0.263	80.9	145 753 754 762	50 405
907	8.9	49 31.35	3.8187	0.0548	50 31 12.8	17.808	0.264	71.9	146 147	50 407
908	9.1	49 34.71	3.9429	0.0656	54 45 29.5	17.805	0.272	79.6	6 obs. [1]	54 424
909	9.0	49 42.63	3.8062	0.0536	50 0 2.5	17.800	0.264	70.9	12 14	49 508
910	8.4	49 42.70	3.8763	0.0596	52 32 58.3	17.800	0.268	76.0	450 451	52 474
911	8.7	1 49 56.65	+3.9132	+0.0628	+ 53 43 51.2	+17.791	−0.271	75.9	362 363 590	53 427
912	9.1	49 57.78	3.8161	0.0543	50 19 4.7	17.790	0.265	80.2	7 obs. [2]	50 410
913	8.8	49 58.21	3.9216	0.0635	53 59 48.0	17.790	0.272	80.9	594 751	53 428
914	7.9	50 19.88	3.8780	0.0595	52 28 0.5	17.775	0.270	73.0	202 204	52 476
915	7.7	50 20.34	3.8445	0.0566	51 16 59.0	17.775	0.267	73.9	268 269 270	51 452
916	8.8	1 50 25.41	+3.8656	+0.0583	+ 52 0 58.1	+17.771	−0.269	76.0	450 451	51 453
917	7.8	50 30.93	3.9568	0.0664	54 58 17.4	17.767	0.275	77.4	505 507 599 601	54 429
918	8.9	50 48.13	3.8200	0.0542	50 16 3.4	17.756	0.267	72.9	8 10 362 363	50 416
919	8.2	51 11.61	3.9685	0.0670	55 10 33.2	17.740	0.278	83.9	753 754	55 464
920	7.9	51 12.86	3.9663	0.0668	55 6 19.4	17.739	0.277	84.0	758 760	55 466
921	8.7	1 51 17.54	+3.9379	+0.0642	+ 54 12 46.9	+17.736	−0.276	77.4	505 507 590 594	54 431
922	9.2	51 23.39	3.8158	0.0536	49 58 25.8	17.732	0.268	70.9	12 14 16α	49 512
923	9.0	51 34.04	3.8358	0.0552	50 40 50.2	17.725	0.269	73.4	147 268 269 270	[50 417]
924	8.8	51 35.54	3.8176	0.0537	49 59 34.0	17.724	0.268	74.9	9 obs. [3]	49 514
925	8.4	51 50.22	3.8939	0.0600	52 39 40.8	17.714	0.274	83.9	751 755 757	52 484
926	8.7	1 51 53.33	+3.8196	+0.0537	+ 50 0 0.0	+17.711	−0.269	81.3 83.9	5 obs. [4]	49 516
927	8.6	52 3.52	3.8950	0.0600	52 38 47.0	17.704	0.274	74.5	202 204 450 451	52 486
928	8.8	52 13.08	3.8878	0.0593	52 22 10.9	17.698	0.275	77.9	599 601	52 487
929	8.6	52 27.63	3.8784	0.0584	51 59 28.6	17.688	0.274	72.0	148 149	51 464
930	8.5[5]	52 39.01	3.8904	0.0593	52 21 33.4	17.680	0.275	76.0	450 [5]	52 488
931	8.9	1 52 47.88	+3.8461	+0.0555	+ 50 46 25.9	+17.674	−0.273	84.0	6 obs. [6]	50 420
932	8.2	52 55.24	3.9089	0.0608	52 54 59.8	17.669	0.277	73.0	202 204	52 489
933	8.8	53 5.17	3.8741	0.0577	51 42 4.3	17.662	0.275	73.9	268 269 270	51 466
934	9.1	53 6.25	3.8564	0.0562	51 4 21.4	17.661	0.274	70.9	8 10	50 423
935	9.0	53 7.72	3.8278	0.0538	50 1 30.9	17.660	0.272	72.9 72.2	12 14 362 363α	49 523
936	8.7	1 53 37.97	+3.9538	+0.0643	+ 54 11 17.5	+17.639	−0.282	77.4	505 507 599 601	54 438
937	9.0	53 41.72	3.9424	0.0632	53 49 9.4	17.637	0.281	77.8	590 594	53 438
938	8.9	53 44.33	3.9298	0.0622	53 24 40.8	17.635	0.280	81.5	5 obs. [7]	53 437
939	8.4	53 47.99	3.8889	0.0586	52 2 59.8	17.632	0.278	71.9	146 147	51 468
940	9.2	53 54.29	3.8506	0.0553	50 41 1.9	17.628	0.275	71.9	144 145	50 426
941	5.4	1 53 59.33	+3.9464	+0.0634	+ 53 52 55.6	+17.624	−0.283	78.0	610 611 613 614	53 439
942	8.7	54 1.95	3.8716	0.0570	51 24 6.5	17.622	0.277	73.9	268 269 270	51 470
943	8.8	54 6.84	3.9848	0.0668	55 1 7.8	17.619	0.285	77.9	608 609	54 441
944	7.8	54 7.42	3.9204	0.0611	53 1 24.8	17.619	0.281	79.5	5 obs. [8]	52 492
945	9.0	54 18.10	3.8887	0.0583	51 55 48.1	17.611	0.279	77.9	599 601	51 473
946	9.0	1 54 19.29	+3.8536	+0.0560	+ 50 41 46.3	+17.610	−0.276	72.9	12 14 362 363	50 427
947	8.8	54 22.26	3.9194	0.0609	52 56 18.0	17.608	0.281	83.9	751 754	52 495
948	8.6	54 26.38	3.9058	0.0597	52 28 27.3	17.605	0.280	78.0	602 603 615 616	52 496
949	8.0	54 47.21	3.9765	0.0656	54 37 41.0	17.591	0.286	77.4	505 507 590 594	54 444
950	7.6	55 5.84	3.9609	0.0641	54 5 25.6	17.578	0.286	80.0 81.6	362 363α 825 826	53 440

[1] Z. 505 507 597 598 755 757 [2] Z. 8 10 753 760 762 763 764 [3] Z. 12 14 16 144 145 362 363 758 760
[4] Z. 16α 753 754 758 760 [5] Dupl. maj.; Z. 451 med.: 39.10 34.2 (76.0) magns 9.0 9.0
[6] Z. 751 753 754 762 763 764 [7] Z. 605 606 751 753 754 [8] Z. 202 204 753 758 760

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
951	8.3	1h 55m 20s.57	+3s.8699	+0s.0562	+ 51° 2′ 53″.7	+17″.568	−0″.280	71.2	12 14 144	50° 430
952	8.5	55 23.49	3.9766	0.0653	54 29 57.3	17.566	0.287	79.9	599 601 758	54 448
953	8.6	55 23.97	3.9992	0.0673	55 9 54.1	17.565	0.289	83.9	751 753 754	55 484
954	9.4	55 24.25	3.8722	0.0564	51 6 56.0	17.565	0.280	72.0	148 149	51 481
955	9.0	55 26.73	3.9776	0.0654	54 31 2.2	17.563	0.288	80.9	599 601 758 760	54 448
956	9.0	1 55 39.74	+3.8694	+0.0560	+ 50 57 31.6	+17.554	−0.280	73.2	16 268 269 270	50 431
957	9.2	55 40.65	3.9941	0.0667	54 57 29.7	17.554	0.289	77.4	505 507 590 594	54 450
958	8.9	55 46.40	3.9067	0.0591	52 12 37.8	17.550	0.283	76.2	202 203 204 911	52 498
959	8.7	55 58.21	3.9109	0.0593	52 18 22.1	17.541	0.284	80.8	7 obs. [1]	52 499
960	8.9	55 59.50	3.9125	0.0595	52 21 20.6	17.540	0.284	82.7	5 obs. [2]	52 500
961	8.9	1 56 0.05	+3.9123	+0.0594	+ 52 20 50.5	+17.540	−0.284	81.5 80.9	5 obs. [3]	52 501
962	6.5	56 2.98	3.8835	0.0570	51 21 56.6	17.538	0.282	80.3	5 obs. [4]	51 483
963	8.5	56 11.84	3.8765	0.0564	51 5 26.3	17.531	0.282	71.9	145 146 147	50 438
964	8.0	56 18.37	3.9716	0.0643	54 9 16.8	17.527	0.289	77.9	599 601	54 452
965	6.6	56 37.50	4.0032	0.0669	55 1 19.6	17.513	0.292	77.4	505 507 590 594	54 453
966	9.4	1 56 50.08	+3.8685	+0.0554	+ 50 40 10.6	+17.504	−0.283	70.9	12 14	50 440
967	8.9	56 50.87	3.8702	0.0555	50 43 34.3	17.504	0.283	74.8	6 obs. [5]	50 441
968	8.8	56 52.40	3.8599	0.0547	50 21 18.6	17.503	0.282	73.0	202 204	50 442
969	6.8	57 20.86	3.8541	0.0540	50 2 36.7	17.482	0.283	73.9	268 269 270	49 544
970	9.0	57 28.52	3.9856	0.0649	54 19 40.4	17.477	0.293	77.4	505 507 590 594	54 457
971	8.6	1 57 39.16	+3.9406	+0.0610	+ 52 54 24.4	+17.469	−0.290	76.4	362 363 599 601	52 505
972	8.8	57 49.91	3.9173	0.0589	52 6 57.4	17.461	0.288	77.9	602 603	52 506
973	9.2	58 12.65	3.9792	0.0639	53 58 45.6	17.445	0.294	77.9	590 594 599 601	[53 449]
974	8.6	58 15.06	3.9115	0.0582	51 50 5.9	17.444	0.289	72.0	148 149	51 493
975	8.2	58 23.47	3.9715	0.0631	53 42 34.2	17.437	0.294	77.4	5 obs. [6]	53 451
976	8.6	1 58 32.30	+3.8855	+0.0560	+ 50 53 37.1	+17.431	−0.288	70.9	12 14	50 449
977	8.6	58 32.74	3.8808	0.0556	50 43 44.9	17.431	0.287	72.5	7 obs. [7]	50 448
978	9.0	58 38.80	3.8899	0.0563	51 1 21.8	17.426	0.288	77.7	16 145 751 760	50 450
979	9.6	58 54.44	3.8834	0.0556	50 44 26.7	17.415	0.288	83.9	753 754	50 451
980	8.6	59 16.40	3.9090	0.0576	51 31 53.4	17.399	0.291	73.0	202 204	51 500
981	8.3	1 59 30.24	+3.8801	+0.0551	+ 50 30 2.0	+17.389	−0.289	72.7	5 obs. [8]	50 455
982	8.5	59 56.62 [9]	3.9922	0.0641	54 0 24.6	17.370	0.298	80.9	362 753 754	53 453
983	9.2	59 57.23	4.0139	0.0660	54 38 20.6	17.370	0.300	77.4	505 507 615 616	54 464
984	9.3	2 0 20.74	3.9205	0.0580	51 41 10.6	17.352	0.294	72.0	146 147 148 149	51 503
985	9.2	0 24.51	3.9397	0.0595	52 17 50.2	17.350	0.296	73.0	202 204	52 517
986	8.7	2 0 31.25	+3.9640	+0.0614	+ 53 2 7.0	+17.345	−0.298	78.0	617 618	52 519
987	8.4	0 32.26	3.9394	0.0594	52 15 34.8	17.344	0.296	73.9	268 269 270	52 518
988	8.7	0 54.29	3.9893	0.0633	53 43 29.3	17.328	0.300	74.9	362 363	53 456
989	8.8	0 58.40	3.8885	0.0551	50 28 43.8	17.325	0.293	70.9	10 16	} 50 459
990	8.7	0 58.44	3.8885	0.0551	50 28 42.8	17.325	0.293	71.2	8 10 16 145	
991	7.2	2 1 6.58	+3.9554	+0.0604	+ 52 38 52.2	+17.319	−0.298	78.0	617 618	52 523
992	9.1	1 6.78	4.0443	0.0679	55 15 33.9	17.319	0.305	85.1 85.4	5 obs. [10]	55 527
993	9.0	1 12.39	3.9401	0.0591	52 8 38.2	17.314	0.297	77.9	608 609	52 524
994	9.0	1 12.58	4.0016	0.0642	54 1 31.9	17.314	0.302	81.5	5 obs. [11]	53 457
995	8.8	1 28.16	4.0337	0.0668	54 53 37.0	17.303	0.305	77.4	505 507 610 611	54 469
996	8.2	2 1 40.92	+3.9951	+0.0634	+ 53 44 15.6	+17.293	−0.302	78.0	615 616	53 459
997	6.2	1 45.28	3.9793	0.0620	53 15 3.8	17.290	0.301	77.9	605 606	53 460
998	8.8	1 45.50	3.9108	0.0565	51 4 15.6	17.290	0.296	70.9	12 14	50 463
999	9.0	1 46.16	3.9450	0.0592	52 10 59.8	17.289	0.299	73.0	202 204	52 525
1000	8.9	1 46.90	4.0290	0.0662	54 41 56.8	17.289	0.305	78.0	613 614	54 470

[1] Z. 602 603 608 609 762 764 914
[2] Z. 608 753 754 762 763
[3] Z. 602 603 753 754 763α
[4] Z. 362 363 751 758 760
[5] Z. 16 268 269 270 613 614
[6] Z. 362 608 609 617 618
[7] Z. 8 10 146 147 268 269 270
[8] Z. 8 10 268 269 270
[9] 56s.62 56s.33 56s.91
[10] Z. 758α 760 911 914 915
[11] Z. 615 616 751 753 754

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1001	8.2	2h 1m59s.66	+3s.9507	+0s.0596	+ 52°19′ 2″.0	+17″.280	−0″.300	83.9	753 754	52°527
1002	9.4	2 8.70	3.9614	0.0604	52 37 14.3	17.273	0.301	73.9	268 270	— —
1003	8.7	2 12.00	3.9912	0.0628	53 31 1.8	17.270	0.303	80.0 81.6	362 363α 825 826	53 462
1004	8.1	2 18.65	3.9625	0.0604	52 37 20.4	17.266	0.301	75.9	5 obs. [1]	52 528
1005	9.0	2 19.22	3.9179	0.0568	51 11 28.4	17.265	0.298	71.9	146 147	51 513
1006	7.8	2 2 28.56	+3.8972	+0.0551	+ 50 27 44.3	+17.258	−0.297	79.9	144 758 760	50 466
1007	9.2	2 55.56	4.0244	0.0652	54 20 25.4	17.238	0.307	77.9	605 606	54 474
1008	8.8	2 58.68	3.9324	0.0577	51 31 53.4	17.236	0.301	72.0	148 149	51 515
1009	8.6	2 59.02	3.9169	0.0564	51 1 11.5	17.235	0.299	70.9	8 12 14	50 469
1010	9.2	3 10.21	3.9699	0.0606	52 40 30.2	17.227	0.304	73.4	202 204 268 269	52 530
1011	8.8	2 3 17.29	+3.8890	+0.0541	+ 50 0 48.9	+17.222	−0.298	78.7	5 obs. [2]	49 574
1012	8.5	3 19.17	4.0139	0.0641	53 57 38.0	17.220	0.308	74.9	362 363	53 470
1013	9.0	3 23.91	4.0290	0.0653	54 22 37.4	17.217	0.309	77.9	599 601	54 478
1014	8.7	3 26.63	3.8911	0.0542	50 3 19.6	17.215	0.298	79.9	145 758 760	49 575
1015	9.4	4 4.47	4.0096	0.0633	53 41 7.7	17.186	0.309	77.3	450 602 603	53 472
1016	8.5	2 4 14.43	+3.9798	+0.0608	+ 52 45 55.6	+17.179	−0.307	83.9	753 754	52 535
1017	9.0	4 22.53	3.9842	0.0611	52 52 13.2	17.173	0.307	73.4	202 204 268 269	52 536
1018	8.7	4 30.20	4.0419	0.0658	54 31 19.0	17.167	0.312	77.9	5 obs. [3]	54 483
1019	9.1	4 43.42	4.0440	0.0658	54 32 17.0	17.157	0.313	77.9	601 608 609	54 484
1020	8.2	4 45.46	4.0124	0.0632	53 37 49.7	17.156	0.310	74.9	362 363	53 474
1021	6.6	2 5 11.76	+3.9764	+0.0601	+ 52 28 13.7	+17.136	−0.309	78.0	608 613 614	52 541
1022	**6.0**	**5 18.10**	**3.9149**	**0.0552**	**50 29 1.5**	**17.131**	**0.304**		**Fund. Cat.**	**50 481**
1023	8.8	5 20.42	4.0390	0.0650	54 16 43.0	17.129	0.314	80.9	605 606 753 754	54 488
1024	9.4	5 21.53	3.9999	0.0618	53 8 40.3	17.128	0.311	76.0	450 451	53 479
1025	8.7	5 26.19	4.0066	0.0624	53 19 37.4	17.125	0.311	77.9	602 603	53 480
1026	9.0	2 5 30.50	+3.9806	+0.0602	+ 52 32 12.2	+17.121	−0.310	79.0	202 826	52 542
1027	9.0	5 37.61	3.9722	0.0595	52 15 13.6	17.116	0.309	73.9	268 269 270	[52 543]
1028	8.8	5 45.82	3.9538	0.0580	51 39 16.6	17.110	0.308	71.9	146 147	51 521
1029	8.6	5 50.40	4.0068	0.0622	53 15 15.3	17.106	0.312	74.9	362 363	53 481
1030	8.8	5 54.93	4.0442	0.0652	54 18 37.6	17.103	0.315	77.9	599 601	54 491
1031	7.5	2 6 0.40	+4.0600	+0.0664	+ 54 43 49.9	+17.099	−0.317	77.9	605 606	54 494
1032	8.9	6 3.08	3.9032	0.0540	49 56 18.8	17.097	0.305	71.6	17 144 145	49 593
1033	8.8	6 7.72	3.9586	0.0582	51 43 51.4	17.093	0.309	72.0	148 149	51 523
1034	9.4	6 10.54	4.0174	0.0629	53 29 52.1	17.091	0.314	81.0	615 616 758 760	[53 482]
1035	9.0	6 17.70	4.0168	0.0628	53 27 23.0	17.086	0.314	84.6	6 obs. [4]	53 485
1036	7.8	2 6 23.92	+4.0346	+0.0641	+ 53 56 45.4	+17.081	−0.316	77.0	450 451 617 618	53 486
1037	8.1	6 24.15	4.0787	0.0678	55 9 42.2	17.081	0.319	84.3 83.9	753 754 829α	55 551
1038	8.3	6 27.25	4.0809	0.0679	55 12 28.5	17.078	0.319	84.4	762 764 829	55 552
1039	9.4	6 33.96	4.0271	0.0634	53 42 5.3	17.073	0.315	74.9	362 363	53 487
1040	7.1	6 35.54	4.0558	0.0658	54 30 7.7	17.072	0.318	78.0	613 614	54 497
1041	9.4	2 6 36.24	+3.9829	+0.0599	+ 52 23 27.0	+17.071	−0.312	76.2	202 608 609	52 548
1042	8.4	6 47.78	4.0043	0.0615	52 59 34.1	17.063	0.314	77.9	610 611	52 549
1043	7.9	6 52.23	4.0764	0.0673	55 0 36.5	17.059	0.320	77.9	599 601	54 500
1044	9.2	7 7.56	3.9159	0.0545	50 8 57.9	17.047	0.308	70.9	5 obs. [5]	50 490
1045	6.8	7 7.91	3.9712	0.0587	51 55 36.6	17.047	0.312	73.9	268 269 270	51 527
1046	8.0	2 7 8.94	+4.0513	+0.0651	+ 54 16 17.7	+17.046	−0.318	81.9	605 753 754	54 502
1047	7.8	7 48.51	3.9554	0.0572	51 17 57.4	17.016	0.312	74.9	362 363	51 530
1048	9.1	7 53.99	3.9689	0.0582	51 42 25.6	17.012	0.314	76.0	450 451	51 532
1049	8.4	7 59.10	3.9782	0.0588	51 58 34.4	17.008	0.315	72.0	148 149	51 533
1050	9.5	8 12.28	3.9460	0.0563	50 55 20.6	16.997	0.313	71.9	144 145	50 497

[1] Z. 268 270 450 608 609 [2] Z. 16 17 753 754 758 [3] Z. 599 601 605 608 609
[4] Z. 760 762 764 767 911 913 [5] Z. 12 14 16 17 20

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1051	9.0	$2^h\ 8^m 13^s.72$	+3ˢ.9499	+0ˢ.0566	+ 51° 2′ 35″.2	+16″.996	−0″.313	71.9	146 147	50° 499
1052	7.6	8 14.97	3.9852	0.0593	52 8 19.9	16.995	0.316	73.0	202 203 204	52 551
1053	8.6	8 29.20	4.0116	0.0615	52 52 59.9	16.984	0.319	81.9	594 753 754	52 553
*1054	8.0	8 31.45	3.9486	0.0563	50 56 47.0	16.982	0.314	78.0	613 614	50 500
1055	8.6	8 32.17	3.9603	0.0572	51 18 53.4	16.982	0.314	73.9	269 270	51 534
1056	8.4	2 8 37.00	+4.0623	+0.0652	+ 54 17 47.3	+16.978	−0.323	77.9	599 601	54 508
1057	9.0	8 43.86	4.0103	0.0610	52 47 54.6	16.973	0.319	77.9	590 605 606	52 555
1058	8.6	8 57.73	4.0976	0.0679	55 10 36.7	16.962	0.326	85.3	5 obs. [1]	55 563
1059	8.7	8 58.00	3.9814	0.0586	51 53 15.0	16.962	0.317	74.9	362 363	51 535
1060	9.1	9 4.66	4.1019	0.0682	55 16 8.5[2]	16.957	0.327	84.8 85.0	762 764α 829 913	55 565
1061	8.5	2 9 13.75	+4.1038	+0.0682	+ 55 17 21.0	+16.950	−0.327	84.8 84.0	762 764 829α 913α	55 566
1062	8.8	9 20.78	4.0561	0.0643	53 59 18.0	16.944	0.324	77.9	608 609	53 493
1063	9.0	9 23.34	3.9229	0.0540	49 56 22.1	16.942	0.314	84.1	767	49 620
1064	8.6	9 25.34	4.0528	0.0640	53 53 1.2	16.941	0.324	77.9	610 611	53 494
1065	9.0	9 30.53	3.9341	0.0548	50 16 58.7	16.937	0.315	71.0	17 20	50 507
1066	8.8	2 9 38.71	+4.0281	+0.0619	+ 53 8 34.9	+16.930	−0.322	81.3	450 753 754	53 495
1067	7.9	9 39.31	3.9636	0.0570	51 12 6.3	16.930	0.317	73.9	268 269 270	51 538
1068	8.9	9 46.65	4.0194	0.0612	52 51 55.5	16.924	0.322	73.0	202 203 204	52 560
1069	8.8	9 49.34	4.0211	0.0613	52 54 20.3	16.922	0.322	74.9	362 363	52 561
1070	8.6	9 52.91	4.0958	0.0672	54 57 40.4	16.919	0.328	77.8	590 594	54 511
1071	7.8	2 9 53.37	+4.0494	+0.0635	+ 53 41 58.6	+16.919	−0.324	77.9	599 601	53 497
*1072	9.2	10 13.93	3.9813	0.0581	51 38 26.9	16.902	0.320	72.0	148 149	51 543
1073	8.8	10 21.58	3.9399	0.0549	50 18 34.6	16.896	0.317	71.9	146 147	50 513
1074	8.7	10 25.20	4.0464	0.0630	53 30 58.8	16.894	0.325	76.0	450 451	53 501
1075	8.5	10 25.42	4.0282	0.0616	52 59 48.7	16.894	0.324	81.9	594 753 754	52 563
1076	8.8	2 10 40.61	+3.9303	+0.0540	+ 49 56 2.6	+16.882	−0.317	78.6	8 obs. [3]	49 625
1077	9.5	10 50.40	3.9722	0.0571	51 14 35.4	16.874	0.320	73.9	268 269 270	51 546
1078	9.0	10 51.40	4.0332	0.0617	53 3 38.1	16.873	0.325	74.2	202 203 204 590	52 564
1079	8.5	10 59.46	3.9322	0.0540	49 56 14.2	16.867	0.317	83.0	614 764 825 826	49 629
1080	9.4	11 0.69	3.9321	0.0540	49 55 45.8	16.866	0.317	82.0	614 758 760	49 630
1081	6.8	2 11 13.46	+3.9988	+0.0589	+ 51 58 59.1	+16.856	−0.323	80.9	362 753 754	51 548
1082	7.0	11 50.58	3.9509	0.0551	50 22 56.7	16.826	0.321	71.0	11 17 20	50 522
1083	8.9	11 53.49	4.0597	0.0632	53 36 55.3	16.824	0.330	81.3	450 758 760	53 504
1084	9.2	11 57.96	4.0429	0.0619	53 7 53.2	16.820	0.328	78.0	362 363 767	53 505
1085	8.7	12 7.98	3.9718	0.0564	50 59 5.6	16.812	0.323	73.2	147 269 270	50 524
1086	8.8	2 12 11.00	+4.1231	+0.0682	+ 55 14 58.6	+16.810	−0.335	84.0	762 764	55 590
1087	8.8	12 12.68	4.1041	0.0666	54 45 6.4	16.809	0.334	77.9	605 606	54 524
1088	6.5	12 21.06	4.1081	0.0668	54 49 56.4	16.802	0.334	77.9	608 609	54 525
1089	9.1	12 24.55	4.1093	0.0669	54 51 6.2	16.799	0.334	77.9	608 609	54 526
1090	9.0	12 25.80	4.0139	0.0595	52 12 19.1	16.798	0.327	77.3 75.7	5 obs. [4]	52 568
1091	9.5	2 12 29.14	+4.0442	+0.0618	+ 53 4 11.4	+16.796	−0.330	78.0	617 618	52 569
1092	6.0	12 37.86	4.0763	0.0642	53 56 4.4	16.789	0.331	78.0	613 614	53 507
1093	8.7	12 44.98	4.0043	0.0586	51 51 40.8	16.783	0.327	78.0	148 149 762 764	51 549
1094	8.5	12 59.40	4.0149	0.0593	52 7 56.6	16.772	0.328	78.0	615 616	52 571
1095	9.1	13 5.34	4.0771	0.0640	53 52 23.1	16.767	0.333	76.3	6 obs. [5]	53 511
1096	8.2	2 13 8.92	+3.9692	+0.0558	+ 50 42 55.7	+16.764	−0.325	72.4	6 obs. [6]	50 530
1097	8.8	13 12.55	4.0706	0.0634	53 40 28.7	16.761	0.333	77.9	608 609	53 513
1098	8.9	13 18.60	4.0180	0.0594	52 9 49.2	16.756	0.329	73.0	202 204	52 572
1099	8.0	13 21.28	3.9759	0.0562	50 53 3.9	16.754	0.326	83.9	753 754	50 534
1100	9.2	14 1.16	4.1071	0.0659	54 30 24.5	16.722	0.338	77.9	605 606	54 530

[1] Z. 760 826 909 911 914 [2] 10″.8 [11″.9] 7″.2 7″.5 [3] Z. 12 17 605 606 614 762 767 825

[4] Z. 202 203 204 753α 754 [5] Z. 362 363 450 451 617 618 [6] Z. 11 12 14 268 269 270

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1101	8.4	$2^h\,14^m\,36^s.68$	+4ˢ.0195	+0ˢ.0589	+ 51°58′13″.2	+16″.693	−0″.332	71.9	146 147	51°554
1102	8.7	14 37.58	3.9699	0.0552	50 27 50.5	16.692	0.328	70.9	11 12 14	50 538
1103	6.7	14 54.35	4.0058	0.0578	51 30 43.0	16.679	0.332	72.0	148 149	51 556
1104	9.0	14 56.64	3.9798	0.0558	50 42 51.6	16.677	0.330	71.0	17 20	50 540
1105	9.3	14 57.40	4.0640	0.0621	53 10 36.2	16.676	0.336	79.4	362 363 753 754	53 517
1106	8.1	2 15 10.24	+4.0279	+0.0592	+ 52 6 46.1	+16.666	−0.334	74.2	5 obs. [1]	52 574
1107	6.2	15 10.78	4.1262	0.0668	54 47 38.8	16.666	0.342	77.9	605 606	54 535
1108	8.3	15 19.35	4.0183	0.0585	51 48 17.6	16.659	0.333	80.6	268 758 760	51 558
1109	8.5	15 28.77	3.9707	0.0549	50 19 56.3	16.651	0.330	70.9	11 12 14	50 541
1110	8.9	15 30.75	4.0841	0.0633	53 37 39.6	16.649	0.339	77.9	608 609	53 518
1111	8.4	2 15 37.74	+4.0846	+0.0633	+ 53 37 14.2	+16.644	−0.340	77.9	602 603 608 609	53 519
1112	8.4	15 47.07	4.0704	0.0621	53 12 16.1	16.636	0.339	79.4	362 363 753 754	53 521
1113	8.8	15 53.71	4.0593	0.0612	52 52 41.0	16.631	0.338	76.0	450 451	52 576
1114	9.2	16 9.80	4.0073	0.0573	51 19 33.5	16.618	0.334	73.9	268 270	[51 562]
1115	9.5	16 9.80	4.0221	0.0584	51 45 56.2	16.618	0.336	77.9	608 609	51 563
1116	8.8	2 16 27.72	+4.0086	+0.0572	+ 51 18 45.6	+16.603	−0.335	73.9	268 270	51 566
1117	7.6	16 31.44	4.1312	0.0664	54 41 10.3	16.600	0.345	77.9	602 603	54 539
1118	9.2	16 41.00	4.0271	0.0585	51 49 4.2	16.592	0.337	72.0	148 149	51 568
1119	8.8	16 42.34	4.0702	0.0617	53 2 12.8	16.591	0.341	78.4	202 203 753 754	52 578
1120	9.0	16 42.64	4.0273	0.0585	51 49 11.2	16.591	0.337	72.0	148 149	51 568
1121	9.4	2 16 49.13	+4.0736	+0.0619	+ 53 6 39.4	+16.586	−0.341	74.9	362 363	53 523
1122	8.8	17 1.89	3.9910	0.0557	50 40 43.8	16.575	0.335	70.9	12 14	50 544
1123	8.3	17 13.66	3.9681	0.0540	49 55 55.8	16.565	0.333	71.0	17 20	49 655
1124	8.7	17 21.35	4.0659	0.0610	52 48 7.4	16.559	0.342	76.0	450 451	52 580
1125	9.2	17 32.06	3.9718	0.0541	49 59 35.3[2]	16.550	0.334	82.5 82.0	615 758 760 764α	49 657
1126	9.2	2 17 32.40	+4.0026	+0.0563	+ 50 56 13.9	+16.550	−0.337	71.9	146 147	50 546
1127	8.4	17 47.71	4.0965	0.0631	53 33 34.4	16.538	0.345	80.4	6 obs. [8]	53 525
1128	9.0	17 50.56	4.1028	0.0636	53 43 7.0	16.535	0.346	77.9	602 603	53 526
1129	8.8		4.1027	0.0636	53 43 0.8	16.535	0.346	77.9	602 603	
1130	8.8	17 52.42	4.0982	0.0632	53 35 23.6	16.534	0.345	83.9	753 754	53 527
1131	8.0	2 18 4.64	+4.0125	+0.0568	+ 51 8 22.5	+16.523	−0.339	73.9	268 270	51 574
1132	9.0	18 12.72	4.0252	0.0577	51 29 26.4	16.517	0.340	77.9	608 609	51 575
1133	9.4	18 36.06	4.0146	0.0567	51 6 35.5	16.497	0.340	78.9	710 711	[51 577]
1134	8.7	18 36.85	4.1681	0.0682	55 15 2.6	16.497	0.353	84.0	758 760	55 621
1135	8.9	18 39.85	4.1362	0.0657	54 26 43.4	16.494	0.350	77.9	602 603	54 548
1136	8.7	2 18 48.44	+4.0799	+0.0614	+ 52 56 8.4	+16.487	−0.346	73.0	202 203 204	52 581
1137	9.0	18 58.86	4.0839	0.0616	53 0 49.5	16.478	0.346	76.0	450 451	52 582
1138	9.0	19 2.53	4.0856	0.0617	53 3 1.0	16.476	0.347	77.9	610 611	52 583
1139	9.4	19 17.06	4.0254	0.0574	51 18 23.7	16.463	0.342	72.0	148 149	51 578
1140	9.0	19 23.48	4.0117	0.0562	50 52 57.0	16.458	0.342	70.9	11 12 14	50 553
1141	7.2	2 19 29.02	+4.0501	+0.0589	+ 51 59 9.0	+16.453	−0.345	73.9	268 270	51 579
1142	6.6	19 29.28	3.9835	0.0542	50 0 33.3	16.453	0.339	71.4	17 20 146 147	49 666
1143	8.8	19 33.86	4.1178	0.0638	53 49 6.2	16.449	0.351	77.9	605 606	53 529
1144	8.8	19 35.96	4.0224	0.0568	51 9 46.0	16.448	0.343	77.9	609	51 580
1145	8.8	19 38.16	4.1192	0.0639	53 50 31.0	16.446	0.351	77.9	605 606	53 530
1146	8.4	2 19 38.16	+3.9968	+0.0550	+ 50 23 33.9	+16.446	−0.341	78.0	615 617 618	50 555
1147	9.4	19 39.77	4.0077	0.0558	50 43 0.3	16.444	0.342	78.9	714 716 717	[50 556]
1148	7.9	19 54.54	4.0713	0.0602	52 30 23.4	16.432	0.347	73.0	202 203 204	52 584
1149	8.4	20 2.75	4.1442	0.0656	54 24 45.8	16.425	0.354	77.9	602 603	54 554
1150	9.2	20 12.45	4.0904	0.0615	52 58 47.4	16.417	0.350	76.0	450 451	52 585

[1] Z. 202 203 204 450 451 [2] 36″.6 34″.2 35″.1 [39″.7] [8] Z. 362 605 606 753 754 767

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1151	8.6[1]	2h 20m 36.61	+4.1048	+0.0623	+ 53° 17′ 41.″1	+16.″397	−0.″352	77.9	608	} 53° 531
*1152	...[2]	20 36.72	4.1048	0.0623	53 17 43.0	16.397	0.352	77.9	602 609	
1153	7.4	20 37.94	4.1707	0.0673	54 58 31.5	16.396	0.357	77.8	590 594	54 557
1154	8.2	20 57.02	4.0543	0.0585	51 51 3.1	16.380	0.348	83.9	753 754	51 582
1155	8.9	21 5.60	4.0557	0.0586	51 52 2.3	16.372	0.348	73.9	268 270	— —
1156	8.5	2 21 10.50	+4.0790	+0.0602	+ 52 30 4.8	+16.368	−0.351	74.5	203 204 450 451	52 587
1157	8.2	21 22.24	4.1095	0.0623	53 17 32.6	16.358	0 354	77.9	605 606	53 532
1158	8.0	21 25.42	4.1683	0.0667	54 47 3.3	16.356	0.359	77.8	590 594	54 559
1159	8.5	21 25.92	4.0169	0.0557	50 40 52.9	16.355	0.346	79.6	11 758 760	50 564
1160	9.0	21 35.88	4.0251	0.0562	50 53 45.0	16.347	0.347	70.9	12 14	50 565
1161	8.7	2 21 39.40	+4.0296	+0.0565	+ 51 1 13.8	+16.344	−0.348	71.0	17 20	50 566
1162	8.4	21 53.85	4.0165	0.0554	50 35 23.4	16.332	0.347	71.9	146 147	50 567
1163	9.5	21 55.13	4.1196	0.0628	53 27 53.1	16.331	0.356	77.9	602 608 609	53 533
1164	7.0	22 1.69	4.1809	0.0673	54 59 34.2	16.325	0.361	82.8	613 762 764 765 766	54 561
1165	8.5	22 2.17	4.1655	0.0662	54 36 50.7	16.325	0.360	78.9	5 obs.[3]	54 562
1166	8.6	2 22 7.18	+3.9984	+0.0541	+ 50 0 30.4	+16.320	−0.346	73.9	268 270	49 675
1167	9.5	22 13.41	4.1187	0.0626	53 23 29.6	16.315	0.356	77.9	605 606	53 535
1168	9.1	22 16.93	4.0899	0.0605	52 36 49.6	16.312	0.354	73.0	202 203 204 } [4]	52 590
1169	9.0	22 17.16	4.0899	0.0605	52 36 47.0	16.312	0.354	73.0	203 204 }	
1170	9.0	22 35.05	4.1595	0.0654	54 22 23.8	16.297	0.360	81.5	9 obs.[5]	51 563
1171	9.1	2 22 46.26	+4.0645	+0.0584	+ 51 49 43.2	+16.287	−0.353	72.0	148 149	51 585
1172	8.2	22 47.73	4.1753	0.0665	54 43 49.0	16.286	0.362	77.9	610 611	54 564
1173	8.5	22 48.57	4.1595	0.0653	54 20 17.0	16.285	0.361	78.9	716 717	54 565
1174	8.9	22 50.28	4.027[2]	0.0558	50 45 48.1	16.284	0.350	70.9	11 12 14	50 571
1175	8.9	22 53.92	4.0625	0.0582	51 45 4.7	16.281	0.353	76.4	7 obs.[6]	51 586
1176	9.2	2 23 15.72	+4.0647	+0.0582	+ 51 45 0.7	+16.262	−0.354	75.6	268 270 723	51 587
1177	8.3	23 20.89	4.0842	0.0596	52 16 42.0	16.258	0.356	77.7	6 obs.[7]	52 592
1178	6.5	23 21.84	4.1862	0.0670	54 54 10.4	16.257	0.364	77.8	590 594	54 567
1179	9.3[8]	23 32.01	4.1388	0.0634	53 41 39.2	16.248	0.361	77.9	606	} 53 538
*1180	...[9]	23 32.02	4.1388	0.0634	53 41 38.8	16.248	0.361	77.9	602 605	
1181	8.8	2 23 46.18	+4.1426	+0.0636	+ 53 45 14.9	+16.236	−0.362	77.9	608 609	53 539
1182	9.7	23 46.90	4.2027	0.0681	55 13 53.0	16.236	0.367	83.9	758 760	55 642
1183	9.3	24 5.76	4.1318	0.0626	53 25 20.1	16.219	0.361	78.6	613 710 711	53 540
1184	8.4	24 8.00	4.1860	0.0666	54 46 22.2	16.217	0.366	77.9	610 611	54 569
1185	7.2	24 11.68	4.1547	0.0642	53 59 24.3	16.214	0.364	77.9	602 608 609	53 541
1186	9.0	2 24 27.54	+4.1817	+0.0662	+ 54 36 52.2	+16.200	−0.366	77.8	590 594	54 570
1187	7.6	24 45.44	4.0738	0.0582	51 45 19.4	16.185	0.358	73.8	7 obs.[10]	51 588
1188	9.5	24 58.78	4.0753	0.0582	51 45 33.9	16.174	0.358	84.0	758 760 761 765 766	51 589
1189	8.5	25 27.61	4.0899	0.0590	52 4 57.4	16.149	0.360	76.4	271 450 451 608 609	51 591
1190	8.6	25 34.28	4.0978	0.0595	52 16 43.6	16.143	0.361	75.4	202 204 602 603	52 595
1191	8.8	2 25 39.83	+4.1199	+0.0610	+ 52 51 12.8	+16.138	−0.364	77.9	605 606	52 597
1192	9.0	25 46.29	4.0838	0.0584	51 51 51.8	16.132	0.361	73.9	268 270	51 593
1193	8.8	25 57.98	4.0690	0.0574	51 25 15.0	16.122	0.360	77.9	608 609	51 594
1194	9.4	26 3.88	4.0701	0.0574	51 26 9.8	16.117	0.360	77.9	608 609	— —
1195	9.1	26 42.90	4.0458	0.0554	50 38 21.5	16.083	0.359	71.7	11 12 14 271	50 587
1196	8.8	2 26 48.25	+4.1379	+0.0618	+ 53 8 16.2	+16.079	−0.367	76.0	450 451	53 546
1197	8.4	26 50.30	4.1628	0.0635	53 46 1.6	16.077	0.370	77.9	602 603	53 547
1198	8.9	27 5.19	4.0870	0.0581	51 44 11.8	16.064	0.364	72.9	23 268 270	51 596
1199	9.0	27 15.32	4.2157	0.0672	54 59 8.4	16.055	0.375	77.8	590 594	54 581
1200	9.3	27 24.69	4.0892	0.0581	51 44 40.4	16.047	0.364	72.6	146 147 270	51 597

[1] Dupl. (1152) maj.
[2] Dupl. 8m.7 & 9m.4 med.
[3] Z. 710α 711α 714 716 717
[4] Z. 450 451 mean of nos. 1168 and 1169: 16.″96 47.″0 magns 8.8 8.8 (76.0)
[5] Z. 590 594 716 717 758 760 764 765 766
[6] Z. 23 268 270 718 721 722 723
[7] Z. 203 204 450 451 761 762
[8] Dupl. (1180) min.
[9] Dupl. 9m.3 & 9m.0 med.
[10] Z. 23 146 147 148 149 268 764

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1201	8.0	$2^h\ 27^m\ 33^s.07$	+4ˢ.0971	+0ˢ.0586	+ 51°56′ 18″.9	+16″.040	−0″.366	72.0	148 149	51°.598
1202	8.8	28 7.43	4.2308	0.0678	55 12 3.6	16.010	0.378	84.3	761 762 826	55 669
1203	7.1	28 13.56	4.0820	0.0573	51 24 49.7	16.004	0.366	74.0	268 270 271 274	51 599
1204	8.9	28 14.89	4.2258	0.0674	55 4 1.1[1]	16.003	0.378	85.6 85.5	831 914α 915	[54 584]
1205	9.2	28 25.15	4.2298	0.0676	55 7 57.3	15.994	0.379	85.3 84.0	761 914α 915α	[55 670]
1206	9.2	2 28 33.56	+4.2304	+0.0676	+ 55 7 25.6[2]	+15.986	−0.379	85.2 85.0	5 obs.[3]	55 672
1207	8.8	28 37.08	4.0935	0.0579	51 40 7.5	15.983	0.367	84.0	758 760	51 600
1208	8.7	29 9.38	4.1190	0.0594	52 16 2.6	15.955	0.371	76.3	204 271 274 761	52 602
1209	9.5	29 26.06	4.0793	0.0565	51 8 48.3	15.940	0.368	71.6	23 146 147	51 602
1210	8.6	29 41.76	4.0517	0.0546	50 19 24.5	15.926	0.366	70.9	9 11	50 589
1211	6.6	2 29 43.84	+4.0389	+0.0537	+ 49 56 51.2	+15.924	−0.365	70.9	12 14	49 724
1212	9.0	29 54.92	4.0962	0.0575	51 32 1.7	15.914	0.370	72.0	148 149	51 604
1213	8.9	30 0.44	4.2200	0.0661	54 39 28.0	15.910	0.382	76.0	450 451	54 586
1214	9.0	30 2.15	4.1879	0.0638	53 52 58.6	15.908	0.379	74.9	362 363	53 552
1215	8.5	30 17.57	4.0513	0.0543	50 13 4.9	15.894	0.367	71.0	17 19 20	50 591
1216	8.5	2 30 43.64	+4.0545	+0.0544	+ 50 14 26.6	+15.871	−0.368	70.9	9 11	50 595
1217	9.1	30 44.49	4.2144	0.0653	54 24 48.2	15.870	0.382	77.8	590 594	54 588
1218	9.4	30 59.42	4.0937	0.0569	51 17 41.8	15.857	0.372	73 9	268 270	51 606
1219	9.6	31 0.20	4.0534	0.0542	50 9 45.1	15.856	0.369	70.9	12 14	[50 596]
1220	8.9	31 7.87	4.0476	0.0537	49 58 39.0	15.850	0.368	84.0	760 761 762	49 733
1221	9.3	2 31 14.41	+4.0950	+0.0568	+ 51 17 30.0	+15.844	−0.373	72.9	23 268 270	[51 608]
1222	9.2	31 16.96	4.1386	0.0598	52 26 55.6	15.842	0.377	73.5	203 204 271 274	52 607
1223	8.8	31 25.31	4.2208	0.0654	54 27 36.8	15.834	0.384	76.0	450 451	54 591
1224	9.0	31 26.83	4.1313	0.0592	52 13 54.8	15.833	0.377	77.9	602 603	52 608
*1225	8.7	31 31.48	4.2346	0.0663	54 46 7.6	15.828	0.386	81.0	590 594 765 766	54 592
1226	9.1	2 31 38.13	+4.1917	+0.0632	+ 53 43 44.6	+15.822	−0.382	74.9	362 363	53 554
1227	7.6	31 40.26	4.1339	0.0592	52 15 49.8	15.821	0.377	77.9	602 603	52 609
1228	8.5	31 51.80	4.0910	0.0563	51 5 5.2	15.810	0.374	71.9	146 147	50 599
1229	8.4	32 0.26	4.0918	0.0563	51 5 1.4	15.803	0.374	71.4	9 11 146 147	50 601
1230	9.3	32 7.27	4.1716	0.0617	53 9 35.2	15.796	0.382	82.7	605 758 760 826	53 555
1231	9.0	2 32 23.40	+4.1815	+0.0622	+ 53 21 51.8	+15.782	−0.383	77.9	610 611	53 556
1232	8.6	32 27.94	4.2068	0.0639	53 58 3.3	15.778	0.385	74.9	362 363	53 557
1233	8.8	32 32.46	4.2344	0.0658	54 36 36.2	15.774	0.388	76.0	450 451	54 594
1234	9.1	32 33.58	4.0910	0.0560	50 58 29.4	15.773	0.375	72.4	12 14 268 270	50 602
1235	8.8	32 36.47	4.1355	0.0589	52 9 41.7	15.770	0.379	75.0	203 274 603	52 611
1236	8.0	2 32 46.30	+4.2503	+0.0668	+ 54 56 35.8	+15.761	−0.390	77.8	590 594	54 596
1237	8.4	32 46.52	4.1353	0.0588	52 7 52.3	15.761	0.380	76.6	271 602 603	52 612
1238	9.4	33 21.07	4.0805	0.0550	50 33 47.9	15.730	0.376	77.0	5 obs.[4]	50 608
1239	8.4	33 25.68	4.1196	0.0575	51 36 53.0	15.726	0.380	74.4	23 606	51 615
1240	9.0	33 31.36	4.1998	0.0629	53 38 26.4	15.720	0.387	74.9	362 363	53 560
1241	8.8	2 33 38.12	+4.1314	+0.0582	+ 51 53 50.3	+15.714	−0.381	72.0	148 149	51 616
1242	8.8	33 47.24	4.1086	0.0560	51 16 0.5	15.706	0.379	73.9	268 270	51 617
1243	8.5	33 53.35	4.0671	0.0539	50 6 5.3	15.700	0.376	70.9	12 14	50 610
1244	9.1	33 55.95	4.1132	0.0569	51 22 0.3	15.698	0.380	77.9	605 608	51 618
1245	5.6	34 6.92	4.2428	0.0656	54 34 14.8	15 688	0.392	76.0	450 451	54 598
1246	8.4	2 34 9.54	+4.0624	+0.0535	+ 49 55 40.6	+15.686	−0.376	71.9	146 147	49 748
1247	6.2	34 11.78	4.1775	0.0610	52 59 28.9	15.684	0.386	76.3	203 602 603	52 616
1248	9.2	34 35.89	4.1495	0.0590	52 13 14.8	15.662	0.385	74.9	362 363	52 617
1249	9.6	34 54.46	4.1382	0.0581	51 52 47.2	15.645	0.384	73.9	268 270	51 620
1250	8.4	34 57.39	4.1054	0.0559	50 59 59.3	15.642	0.381	70.9	12 14	50 613

[1] 4′ 4″.1 3′ 58″.1 [2] — 25″.1 26″.0 — [17″.5] [3] Z. 761α 762 913 914α 915α [4] Z. 17 613 621 714 718

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1251	9.3	$2^h\,35^m\,5^s.90$	+4ˢ.0723	+0ˢ.0538	+ 50° 3′ 48″.3	+15″.634	−0″.378	73.0	205 206	49°753
1252	9.0	35 17.75	4.1231	0.0570	51 25 28.2	15.624	0.384	74.0	271 274	51 621
1253	8.9	35 41.64	4.0982	0.0552	50 41 29.2	15.602	0.382	73.0	205 206	50 617
1254	8.8	35 46.13	4.2816	0.0675	55 12 26.9	15.598	0.399	85.0	826	55 701
1255	8.5	35 59.09	4.1404	0.0578	51 46 28.8	15.586	0.387	73.0	148 149 268 270	51 622
1256	8.8	2 36 3.68	+4.2492	+0.0651	+ 54 25 57.1	+15.582	−0.397	76.0	450 451	54 602
1257	9.4	36 19.16	4.0766	0.0535	49 59 53.6	15.567	0.381	70.9	12 14	49 757
1258	8.4	36 22.62	4.0840	0.0540	50 11 45.8	15.564	0.382	73.0	146 147 271 274	50 620
1259	8.8	36 49.90	4.1179	0.0560	51 3 17.4	12.539	0.386	73.0	205 206	50 623
1260	8.6	37 7.11	4.0838	0.0537	50 4 42.5	15.523	0.384	70.9	12 14	49 760
1261	9.2	2 37 17.26	+4.2780	+0.0664	+ 54 54 30.3	+15.514	−0.402	76.0	450 451	54 603
1262	8.2	37 18.61	4.1847	0.0601	52 42 23.2	15.513	0.393	81.1	274 761 828	52 622
1263	9.5	37 29.62	4.1909	0.0604	52 49 57.4	15.502	0.394	77.9	605 610 611	52 623
1264	8.4	37 33.72	4.1833	0.0599	52 38 1.0	15.499	0.394	77.2	203 271 608 762	52 624
1265	7.6	37 43.15	4.2218	0.0624	53 32 56.6	15.490	0.398	80.0	362 826	53 567
1266	8.4	2 37 46.81	+4.0877	+0.0536	+ 50 5 19.7	+15.486	−0.385	71.0	17 19	50 627
1267	9.1	38 8.07	4.1417	0.0570	51 29 21.3	15.467	0.391	72.9	23 268 270	51 625
1268	9.0	38 9.49	4.1491	0.0574	51 40 39.3	15.465	0.392	72.0	148 149	51 626
1269	8.9	38 22.55	4.1481	0.0573	51 37 16.8	15.453	0.392	74.0	271 274	51 628
1270	8.2	38 46.14	4.2227	0.0620	53 24 59.6	15.431	0.400	78.0	597 603 613 621	} 53 568
1271	9.0	2 38 46.49	+4.2228	+0.0620	+ 53 25 7.2	+15.431	−0.400	78.0	597 603 613 621	
1272	8.8	38 47.84	4.1236	0.0555	50 54 48.0	15.430	0.391	70.9	12 14	50 628
1273	8.5	38 49.81	4.2667	0.0649	54 25 56.4	15.428	0.404	76.0	450 451	54 605
1274	8.8	38 52.02	4.2301	0.0624	53 34 49.5	15.426	0.401	74.9	362 363	53 569
1275	7.2	38 52.64	4.2964	0.0669	55 5 16.8	15.425	0.407	77.8	590 594	54 606
1276	9.5	2 38 53.51	+4.2338	+0.0627	+ 53 39 48.6	+15.424	−0.401	77.9	610 611	53 570
1277	8.4	39 0.44	4.2220	0.0618	53 21 57.4	15.418	0.400	84.6	766 829	53 572
1278	8.4	39 4.85	4.1589	0.0576	51 47 43.6	15.414	0.395	72.4	22 23 268 270	51 629
1279	7.8	39 11.31	4.3057	0.0674	55 14 55.2	15.408	0.408	84.4	761 762 828	55 706
1280	9.5	39 12.97	4.1847	0.0593	52 25 34.6	15.406	0.397	76.7	203 605 608 609	52 626
1281	7.9	2 39 22.64	+4.1310	+0.0557	+ 51 1 33.7	+15.397	−0.392	72.4	7 obs. [1]	50 630
1282	9.3	39 25.28	4.1126	0.0546	50 31 36.4	15.395	0.391	71.9	146 147	50 631
1283	9.2	39 38.71	4.1321	0.0557	51 0 55.4	15.382	0.393	80.4	7 obs. [2]	50 633
1284	9.2	39 43.62	4.1327	0.0557	51 1 6.7	15.378	0.393	80.3	7 obs. [3]	50 635
1285	7.7	39 50.01	4.2388	0.0625	53 38 40.3	15.372	0.404	81.0	362 761 762	53 574
1286	7.6	2 39 52.87	+4.1094	+0.0542	+ 50 22 20.6	+15.369	−0.392	70.9	6 12 14	50 636
1287	9.1	40 20.49	4.1407	0.0560	51 8 21.4	15.343	0.395	71.0	22 23	51 631
1288	8.1	40 30.66	4.1954	0.0594	52 30 24.3	15.334	0.401	73.7	203 271 274	52 629
1289	9.0	40 40.55	4.1550	0.0567	51 27 51.0	15.324	0.398	73.0	148 149 268 270	51 632
1290	8.6	40 44.44	4.1422	0.0559	51 7 14.8	15.321	0.396	73.0	205 206	51 633
1291	8.6	2 40 48.21	+4.2344	+0.0618	+ 53 24 15.5	+15.317	−0.405	81.0	362 761 762	53 576
1292	8.2	40 57.22	4.3045	0.0664	54 58 30.0	15.309	0.412	80.3	450 451 766 828	54 610
1293	9.4	41 41.66	4.2155	0.0601	52 49 44.0	15.267	0.405	77.9	597 603	52 632
1294	9.2	41 42.31	4.1850	0.0582	52 4 36.6	15.266	0.402	74.0	271 274	52 631
1295	8.9	41 43.84	4.1994	0.0591	52 25 47.2	15.265	0.404	73.0	205 206	52 633
1296	9.1	2 41 46.84	+4.1553	+0.0563	+ 51 18 48.8	+15.262	−0.400	72.3	6 obs. [4]	51 635
1297	7.2	41 47.08	4.1729	0.0574	51 45 44.0	15.262	0.402	84.0	761 762	51 636
1298	8.2	41 51.80	4.2728	0.0638	54 8 31.8	15.257	0.411	76.0	450 451	54 613
1299	8.9	42 30.24	4.1207	0.0538	50 17 54.8	15.221	0.398	70.9	12 14	50 641
1300	8.8	42 35.52	4.2906	0.0647	54 26 35.6	15.216	0.414	77.9	605 608 609	54 615

[1] Z. 17 19 20 205 206 271 274 [2] Z. 268 270 274 766 831 914 915 [3] Z. 206 268 270 766 831 914 915
[4] Z. 22 23 146 147 268 270

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1301	8.2	$2^h 42^m 36^s.45$	$+4^s.1831$	$+0^s.0576$	+ 51°54′ 8″.4	$+15''.215$	$-0''.404$	71.0	22 23	51°639
1302	8.6	42 41.16	4.2169	0.0598	52 43 20.6	15.210	0.407	73.7	203 271 274	52 635
1303	7.6	42 56.08	4.2097	0.0592	52 30 48.1	15.196	0.407	77.9	597 603	52 637
1304	9.2	43 13.53	4.2217	0.0598	52 45 44.0	15.179	0.409	77.9	605 608	52 638
1305	8.2	43 14.42	4.1779	0.0570	51 40 57.6	15.179	0.404	73.9	268 270	51 640
1306	9.1	2 43 29.27	+4.2543	+0.0618	+ 53 29 36.5	+15.164	−0.412	77.6	511 590 594	53 580
1307	7.9	43 39.25	4.2283	0.0600	52 51 37.4	15.155	0.410	74.0	271 274	52 639
1308	9.0	43 53.43	4.2446	0.0610	53 12 43.0	15.141	0.412	76.0	452 453 454	53 583
1309	8.4[1]	44 0.58	4.2146	0.0590	52 28 52.6	15.134	0.410	73.0	203	} 52 640
*1310	...[2]	44 0.70	4.2146	0.0590	52 28 54.3	15.134	0.410	77.9	597 603	
1311	8.7	2 44 10.27	+4.1935	+0.0576	+ 51 56 29.8	+15.125	−0.408	71.0	22 23	51 642
1312	9.2	44 31.81	4.1400	0.0542	50 31 21.6	15.105	0.404	72.1	6 obs. [3]	50 650
1313	8.3	44 36.65	4.1402	0.0542	50 31 0.0	15.100	0.404	71.9	8 obs. [4]	50 652
1314	8.0	44 40.03	4.2524	0.0611	53 17 18.8	15.097	0.415	76.0	450 451	53 587
1315	8.2	45 2.38	4.1823	0.0566	51 32 24.4	15.075	0.409	71.0	22 23	51 645
1316	9.7	2 45 2.40	+4.1765	+0.0562	+ 51 23 43.7	+15.075	−0.408	84.0	761 762	— —
1317	9.8	45 9.92	4.1655	0.0555	51 5 48.8	15.068	0.407	73.0	205 206	51 647
1318	**4.0**	**45 24.35**	**4.2130**	**0.0583**	**52 14 56.9**	**15.054**	**0.412**		**Fund. Cat.**	**52 641**
1319	6.5	45 40.50	4.1511	0.0544	50 39 15.4	15.039	0.407	70.9	12 14	50 654
1320	8.9	45 45.08	4.2402	0.0599	52 51 12.3	15.034	0.416	77.9	597α 603	52 642
1321	9.1	2 45 50.32	+4.2917	+0.0631	+ 54 1 28.4	+15.029	−0.421	77.7	511 605 608 609	53 589
1322	8.6	45 53.00	4.2080	0.0578	52 3 48.0	15.027	0.413	73.9	268 270	51 649
1323	9.2	45 55.88	4.3142	0.0646	54 30 29.2	15.024	0.423	76.0	452 453 454	54 618
1324	8.6	45 56.40	4.2479	0.0603	53 0 36.8	15.023	0.417	73.0	205 206	52 643
1325	8.9	45 59.69	4.2879	0.0628	53 55 10.0	15.020	0.421	78.6	5 obs. [5]	53 590
1326	8.4	2 46 15.36	+4.1472	+0.0539	+ 50 28 16.1	+15.005	−0.408	71.0	17 19 20	50 659
1327	9.0	46 34.89	4.1994	0.0570	51 45 21.3	14.986	0.414	72.6	22 23 271 274	51 653
1328	8.2	46 45.20	4.1535	0.0541	50 34 3.2	14.976	0.409	70.9	6 12 14	50 661
1329	8.6	47 8.98	4.1802	0.0556	51 11 48.3	14.953	0.413	72.9	146 147 268 270	51 655
1330	8.4	47 49.19	4.3480	0.0658	54 59 1.4	14.914	0.430	76.4	453 454 510	54 621
1331	8.9	2 47 56.38	+4.3354	+0.0650	+ 54 42 1.7	+14.907	−0.429	77.6	511 597 603	54 623
1332	6.5	48 5.53	4.1678	0.0544	50 45 15.9	14.898	0.413	70.9	9 11 12 14	50 665
1333	8.6	48 6.38	4.1499	0.0534	50 17 19.6	14.897	0.412	72.4	6 obs. [6]	50 667
1334	9.0	48 13.60	4.3577	0.0663	55 8 7.4	14.890	0.432	84.0	761 762	55 727
1335	9.0	48 24.73	4.1542	0.0535	50 21 30.6	14.879	0.413	75.4	208 605	50 670
1336	8.3	2 48 27.58	+4.2996	+0.0624	+ 53 51 8.9	+14.876	−0.427	76.0	452 453 454	53 594
1337	8.8	48 29.20	4.1599	0.0538	50 29 48.6	14.875	0.413	73.9	268 270	50 671
1338	8.2	48 29.52	4.2198	0.0574	51 59 40.3	14.874	0.419	71.7	22 23 206	51 657
1339	9.2	48 31.70	4.2192	0.0573	51 58 31.0	14.872	0.419	78.6	206 766	51 658
1340	8.8	48 51.67	4.3050	0.0626	53 55 6.7	14.853	0.428	82.0	608 761 762	53 595
1341	8.9	2 48 51.68	+4.2385	+0.0584	+ 52 23 41.3	+14.853	−0.422	74.0	271 274	52 645
1342	9.0	49 10.54	4.3420	0.0648	54 40 49.9	14.834	0.432	77.6	511 597 603	54 625
1343	7.9	49 13.49	4.2790	0.0608	53 17 17.2	14.831	0.426	76.0	452 453 454	53 596
1344	9.4	49 22.46	4.1631	0.0537	50 27 37.6	14.822	0.415	71.3	5 obs. [7]	50 672
1345	8.9	49 46.32	4.3042	0.0621	53 46 57.9	14.799	0.430	77.9	605 608 609	53 598
1346	9.5	2 49 57.76	+4.2587	+0.0592	+ 52 43 24.7	+14.788	−0.426	73.4	205 206 268 270	52 647
1347	8.9	50 6.34	4.3107	0.0623	53 52 57.9	14.779	0.431	76.3	452 453 510	53 599
1348	8.8	50 41.50	4.3116	0.0621	53 49 37.8	14.744	0.433	77.4	5 obs. [8]	53 601
1349	7.2	50 54.44	4.3527	0.0646	54 41 5.2	14.732	0.437	77.9	597 603	54 629
1350	8.9	50 55.73	4.1876	0.0544	50 52 28.3	14.730	0.421	75.0	8 obs. [9]	50 679

[1] Dupl. (1310) min.

[2] Dupl. $8^m.2$ & $8^m.0$ med.

[3] Z. 17 19 20 147 268 270

[4] Z. 6 14 17 19 146 147 268 270

[5] Z. 613 621 718 722 723

[6] Z. 17 19 20 207 271 274

[7] Z. 11 12 14 146 147

[8] Z. 454 511 605 608 609

[9] Z. 6 9 11 12 271 274 761 762

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1351	8.6	$2^h\ 50^m 57^s.50$	+4ˢ.3276	+0ˢ.0630	+ 54° 8′ 31″.0	+14″.729	−0″.435	76.0	452 453 454	54°630
1352	8.9	51 10.08	4.1985	0.0550	51 6 59.8	14.716	0.422	72.4	22 23 268 270	51 660
1353	6.0	51 58.38	4.2330	0.0567	51 51 10.3	14.668	0.427	72.6	6 obs. [1]	
1354	8.0	51 59.73	4.2331	0.0567	51 51 11.1	14.667	0.427	73.4	205 206 268 270	51 665
1355	8.9	52 50.78	4.2981	0.0603	53 15 2.2	14.616	0.435	75.6	5 obs. [2]	53 604
1356	7.1	2 53 18.32	+4.3287	+0.0619	+ 53 52 3.0	+14.589	−0.439	81.0	366 761 762	53 606
1357	8.5	53 21.12	4.2031	0.0544	50 56 39.2	14.586	0.427	72.5	9 11 271 274	50 682
1358	8.6	53 43.16	4.3271	0.0616	53 46 47.7	14.564	0.440	77.4	510 511 597 603	53 607
1359	9.3	54 0.14	4.2396	0.0562	51 44 58.4	14.547	0.432	71.0	22 23	51 667
1360	9.3	54 6.73	4.1810	0.0528	50 17 28.8	14.540	0.426	71.8	5 obs. [3]	50 685
1361	8.8	2 54 20.56	+4.2077	+0.0543	+ 50 55 50.9	+14.526	−0.429	72.6	6 obs. [4]	50 686
1362	9.2	55 5.70	4.2570	0.0568	52 1 16.4	14.481	0.436	71.0	22 23	51 670
1363	8.5	55 8.85	4.1932	0.0531	50 28 0.0	14.478	0.429	71.6	6 146 147	50 689
1364	9.1	55 43.26	4.1833	0.0523	50 8 39.0	14.443	0.429	73.0	207 208	50 692
1365	8.6	55 44.53	4.2126	0.0540	50 52 27.2	14.442	0.432	72.3	11 205 206	50 691
1366	**3.0**	**2 55 45.24**	**+4.3040**	**+0.0593**	**+ 53 0 54.2**	**+14.441**	**−0.442**		**Fund. Cat.**	52 654
1367	7.6	56 5.84	4.2674	0.0570	52 8 15.2	14.420	0.439	76.7	367 510 511 608	52 655
1368	8.6	56 49.52	4.2748	0.0571	52 13 4.3	14.376	0.441	74.0	271 274	52 656
1369	9.4	57 0.79	4.3073	0.0590	52 55 55.6	14.364	0.444	73.0	207 208	52 657
*1370	...[5]	57 5.77	4.2914	0.0580	52 33 55.1	14.359	0.443	77.6	510 624	
1371	8.9[6]	2 57 5.80	+4.2914	+0.0580	+ 52 33 54.4	+14.359	−0.443	77.7	511 608 622	52 658
1372	9.1	57 6.65	4.3682	0.0626	54 14 13.0	14.358	0.451	78.6	621 718 721	[54 636]
1373	9.1	57 19.46	4.3570	0.0618	53 58 30.4	14.345	0.450	75.0	364 365	53 612
1374	8.9	57 20.00	4.2104	0.0532	50 37 3.0	14.344	0.435	71.4	11 146	50 701
1375	9.1	57 21.41	4.2292	0.0543	51 4 33.0	14.343	0.437	71.0	22 23	51 676
1376	9.0	2 57 26.63	+4.3702	+0.0625	+ 54 14 24.7	+14.338	−0.452	78.6	613 718 721	54 638
1377	9.2	57 27.14	4.2068	0.0530	50 30 53.4	14.337	0.435	73.0	205 206	
1378	9.4	57 28.26	4.2069	0.0530	50 30 52.6	14.336	0.435	73.0	205 206	50 702
1379	9.0	58 14.90	4.3460	0.0607	53 37 40.0	14.288	0.451	75.1	371 372	53 613
1380	8.8	58 19.51	4.3639	0.0617	53 59 59.4	14.284	0.453	77.6	511 608 609	53 616
1381	8.6	2 58 21.16	+4.3464	+0.0607	+ 53 37 32.7	+14.282	−0.451	75.7	5 obs. [7]	53 615
1382	9.2	58 23.50	4.3636	0.0617	53 59 7.2	14.280	0.453	77.9	608 609	53 617
1383	8.8	58 31.56	4.2678	0.0560	51 50 49.6	14.271	0.444	72.5	22 23 271 274	51 678
1384	8.1	58 48.06	4.2630	0.0556	51 41 58.2	14.254	0.444	72.5	147 148 205 206	51 679
1385	8.9	58 49.66	4.3604	0.0613	53 51 53.7	14.253	0.453	81.0	366 761 762	53 618
1386	9.4	2 58 50.71	+4.3625	+0.0614	+ 53 54 31.0	+14.252	−0.454	78.8	6 obs. [8]	53 619
1387	7.6	58 55.74	4.4236	0.0651	55 8 59.1	14.247	0.460	84.8	765 827 828	55 741
1388	5.8	59 6.08	4.2659	0.0556	51 43 47.5	14.236	0.444	76.3	146 206 761	51 681
1389	7.3	59 34.79	4.2244	0.0531	50 41 1.1	14.206	0.441	70.9	6 9 11	50 706
1390	9.2	3 0 7.43	4.2669	0.0553	51 37 46.5	14.173	0.446	71.4	22 23 274	51 683
1391	7.8	3 0 28.65	+4.2052	+0.0517	+ 50 5 57.0	+14.151	−0.441	70.9	9 11	50 707
1392	8.5	0 44.68	4.3635	0.0606	53 42 8.6	14.134	0.458	77.5	5 obs. [9]	53 624
1393	9.1	0 46.38	4.4179	0.0639	54 49 13.7	14.132	0.463	76.0	452 453 454	54 641
1394	8.7	1 16.59	4.3083	0.0572	52 26 12.8	14.101	0.453	73.0	205 206 207	52 661
1395	8.7	1 33.11	4.2249	0.0524	50 27 10.7	14.084	0.445	71.4	9 11 148 149	50 710
1396	9.2	3 1 40.54	+4.3083	+0.0570	+ 52 23 26.1	+14.076	−0.454	80.3	208 761 762	52 662
1397	8.9	1 45.19	4.2483	0.0536	50 59 39.8	14.072	0.448	71.4	17 20 146 147	50 712
1398	6.9	1 55.78	4.3221	0.0577	52 39 56.4	14.061	0.455	79.1	274 765	52 663
1399	9.2	2 5.54	4.4301	0.0639	54 54 40.0	14.051	0.467	77.2	5 obs. [10]	54 644
1400	9.5	2 31.08	4.3797	0.0607	53 50 6.8	14.024	0.463	77.4	510 603	53 628

[1] Z. 22 23 205 206 268 270 [2] Z. 364 365 452 453 454 [3] Z. 17 19 20 207 208
[4] Z. 9 11 205 206 271 274 [5] Dupl. $9^m.2$ & $9^m.3$ med. [6] Dupl. (1370) maj. [7] Z. 371 372 452 453 454
[8] Z. 367 603 613 718 721 762 [9] Z. 510 511 603 608 609 [10] Z. 452 454 611 619 620

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1401	8.2	$3^h\ 2^m 32^s.75$	+4ˢ.2465	+0ˢ.0532	+ 50°51′19″.8	+14″.022	−0″.449	70.9	9 11	50°715
1402	9.4	2 35.94	4.3510	0.0590	53 13 1.4	14.019	0.460	77.9	608 609	53 629
1403	9.3	2 36.46	4.3953	0.0616	54 8 52.9	14.018	0.464	78.1	619 620	54 646
1404	8.9	2 36.61	4.2366	0.0526	50 36 34.8	14.018	0.448	71.0	17 19 20	50 716
1405	6.9	2 43.04	4.2829	0.0551	51 41 16.9	14.011	0.453	71.0	22 23	51 689
1406	9.5	3 2 51.66	+4.3917	+0.0613	+ 54 2 36.4	+14.002	−0.464	78.1	613 621 624	53 631
1407	8.4	3 4.77	4.3327	0.0578	52 45 49.0	13.989	0.459	73.0	205 206	52 665
1408	8.2	3 30.96	4.4361	0.0636	54 51 57.6	13.961	0.470	76.0	452 454	54 648
1409	9.1	3 33.52	4.2728	0.0542	51 21 20.8	13.958	0.453	71.9	146 147	51 691
1410	8.0	3 36.20	4.3193	0.0568	52 24 24.6	13.956	0.458	73.6	208 274	52 666
1411	8.9	3 3 41.84	+4.4080	+0.0618	+ 54 16 52.1	+13.950	−0.468	77.6	6 obs. [1]	54 649
1412	9.0	3 49.13	4.3051	0.0559	52 3 50.3	13.942	0.457	71.0	22 23	51 693
1413	8.3	3 50.08	4.2826	0.0547	51 33 1.4	13.941	0.453	72.0	148 149	51 694
1414	8.6	3 56.18	4.2579	0.0532	50 57 41.8	13.935	0.452	70.9	9 11	50 720
1415	9.1	4 17.75	4.2191	0.0510	49 59 2.0	13.912	0.449	71.0	17 20	49 873
1416	9.0	3 4 40.24	+4.4225	+0.0622	+ 54 27 51.1	+13.889	−0.471	76.0	452 454	54 651
1417	9.0	4 46.24	4.4139	0.0617	54 16 41.9	13.882	0.470	77.4	510 511 597 603	54 652
1418	7.7	4 50.07	4.2775	0.0540	51 18 50.9	13.878	0.456	72.0	22 23 274	51 696
1419	8.0	4 54.30	4.2780	0.0540	51 19 5.0	13.874	0.456	73.0	205 206	
1420	8.5	5 47.78	4.2740	0.0534	51 7 12.9	13.817	0.458	71.5	22 23 148 149	51 699
1421	8.2	3 6 31.90	+4.3290	+0.0561	+ 52 16 58.4	+13.771	−0.465	72.0	150 151	52 672
1422	8.8	6 32.28	4.2746	0.0531	51 3 0.0	13.770	0.459	70.9	9 11	50 722
1423	8.6	6 36.14	4.2499	0.0518	50 27 28.9	13.766	0.456	71.0	17 20	50 723
1424	8.6	6 42.78	4.4532	0.0630	54 50 27.4	13.759	0.478	76.0	452 454	54 657
1425	6.6	6 52.83	4.2525	0.0518	50 29 23.2	13.748	0.457	79.7	6 obs. [2]	50 725
1426	7.5	3 7 8.68	+4.2799	+0.0532	+ 51 6 11.0	+13.732	−0.461	71.0	22 23	51 703
1427	9.5	7 12.91	4.3650	0.0578	52 59 13.3	13.727	0.470	76.0	366 367 510 511	52 673
1428	9.0	7 15.14	4.2744	0.0528	50 57 46.3	13.725	0.460	80.3	208 761 762	50 728
1429	6.5	7 16.68	4.2537	0.0517	50 28 17.3	13.723	0.458	84.1	765	50 729
1430	7.2	7 51.40	4.2685	0.0522	50 45 15.2	13.686	0.461	70.9	9 11	50 731
1431	9.1	3 8 14.61	+4.2691	+0.0521	+ 50 43 32.0	+13.661	−0.462	73.0	205 207 208	50 733
1432	8.9	8 33.61	4.2934	0.0533	51 15 7.4	13.641	0.465	71.0	22 23	51 708
1433	8.8	8 42.65	4.3941	0.0588	53 25 54.4	13.631	0.476	77.9	610 611	53 639
1434	8.4	8 44.27	4.3024	0.0537	51 26 16.0	13.630	0.466	72.0	148 149	51 709
1435	8.9	8 46.16	4.4491	0.0618	54 32 5.8	13.628	0.482	76.5	452 454 510 511	54 661
1436	8.0	3 9 28.69	+4.2485	+0.0506	+ 50 5 43.5	+13.582	−0.462	72.3	11 205 206	50 736
1437	8.7	9 34.55	4.4743	0.0629	54 56 14.6	13.576	0.486	77.4	510 511 597 603	54 664
1438	8.8	9 40.44	4.4642	0.0623	54 43 57.0	13.570	0.485	76.0	452 454	54 665
1439	9.2	9 55.88	4.3486	0.0557	52 19 44.8	13.553	0.473	73.0	207 208	52 677
1440	8.9	10 23.13	4.3104	0.0535	51 26 0.5	13.524	0.470	71.0	22 23	51 712
1441	8.1	3 10 23.62	+4.4156	+0.0591	+ 53 41 19.0	+13.523	−0.481	77.9	610 611	53 642
1442	8.3	10 23.86	4.3946	0.0580	53 15 16.4	13.523	0.479	77.4	510 511 597 603	53 643
1443	8.9	10 33.22	4.3468	0.0553	52 13 16.0	13.513	0.474	77.9	608 609	52 678
1444	7.6	10 56.55	4.4895	0.0631	55 4 46.1	13.487	0.490	84.0	761 762	55 766
1445	8.6	11 7.07	4.3219	0.0538	51 36 40.6	13.476	0.472	72.7	148 149 274	51 713
1446	7.4	3 11 7.87	+4.2739	+0.0513	+ 50 30 43.8	+13.475	−0.467	72.0	11 17 205 206	50 738
1447	9.0	11 9.18	4.3702	0.0564	52 39 36.0	13.474	0.478	73.0	207 208	52 680
1448	9.2	11 13.12	4.4203	0.0590	53 41 37.2	13.470	0.483	76.0	452 454	53 645
1449	9.1	11 20.71	4.3780	0.0567	52 48 13.4	13.461	0.479	77.9	608 609	52 681
1450	7.5	11 21.44	4.3032	0.0527	51 9 44.4	13.461	0.471	77.7	5 obs. [3]	51 716

[1] Z. 510 511 597 603 608 609 [2] Z. 17 20 761 762 765 767 [3] Z. 22 23 623 765 767

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1451	8.7	$3^h\,11^m\,59^s.26$	+4ˢ.4241	+0ˢ.0589	+ 53°41′ 10″.7	+13″.420	−0″.485	77.4	510 511 597 603	53°647
1452	8.7	12 1.20	4.2792	0.0512	50 32 17.7	13.418	0.470	71.0	11 17 19	50 742
1453	8.8	12 6.98	4.4209	0.0587	53 36 28.2	13.411	0.485	76.0	452 454	53 649
1454	8.8	12 14.39	4.3476	0.0547	52 3 9.9	13.403	0.477	76.6	274 610 611	51 719
1455	8.6	12 15.57	4.3058	0.0525	51 7 20.9	13.402	0.473	78.1	613 623 624 625	51 720
1456	8.8	3 12 30.39	+4.3028	+0.0522	+ 51 1 41.4	+13.386	−0.473	73.0	207 208	50 744
1457	8.2	12 37.06	4.3598	0.0552	52 16 38.2	13.379	0.479	77.9	608 609	52 684
1458	8.5	12 38.23	4.3959	0.0570	53 2 16.6	13.377	0.483	72.0	150 151	52 683
1459	8.0	12 42.78	4.5021	0.0629	55 7 53.1	13.372	0.495	84.0	761 762	55 770
1460	7.0	12 46.07	4.3556	0.0549	52 10 14.8	13.369	0.479	77.9	610 611	52 685
1461	9.0	3 12 52.12	+4.3431	+0.0542	+ 51 53 15.8	+13.362	−0.478	71.0	22 23	51 722
1462	8.7	13 0.27	4.2887	0.0513	50 39 2.0	13.353	0.472	77.1	274 623 624 625	50 746
1463	8.8	13 22.70	4.3151	0.0525	51 12 34.5	13.329	0.476	72.0	148 149	51 723
1464	8.5	13 29.94	4.4500	0.0596	54 2 43.4	13.321	0.491	77.0	6 obs. [1]	53 651
1465	7.4	13 39.19	4.4888	0.0617	54 46 49.9	13.311	0.495	77.5	5 obs. [2]	54 672
1466	9.4	3 14 13.08	+4.3460	+0.0538	+ 51 48 17.5	+13.274	−0.481	71.0	22 23	51 725
1467	8.8	14 23.35	4.3420	0.0535	51 41 55.4	13.263	0.481	78.1	613 621 628	51 726
1468	8.8	14 23.51	4.4598	0.0598	54 8 35.8	13.263	0.493	78.0	8 obs. [3]	54 674
1469	9.6	14 30.68	4.4594	0.0597	54 7 21.4	13.255	0.494	84.0	761 762	54 675
1470	8.9	14 32.17	4.4429	0.0588	53 47 36.4	13.253	0.492	76.5	452 454 510 511	53 652
1471	8.6	3 14 33.95	+4.3495	+0.0538	+ 51 50 41.8	+13.251	−0.482	78.1	624 625	51 727
1472	8.6	14 36.45	4.2776	0.0501	50 12 58.8	13.248	0.474	74.0	11 207 274 623	50 751
1473	7.9	14 38.11	4.3261	0.0526	51 19 19.0	13.247	0.479	80.1	626 627 767	51 728
1474	8.8	15 10.81	4.3625	0.0542	52 3 40.8	13.211	0.484	71.0	22 23	51 729
1475	9.2	15 17.03	4.2739	0.0497	50 3 23.8	13.204	0.475	78.1	622 623	49 915
1476	8.6	3 15 20.34	+4.4135	+0.0568	+ 53 6 57.8	+13.200	−0.490	77.9	597 603	53 654
1477	8.8	15 28.37	4.3955	0.0558	52 43 44.8	13.192	0.488	72.0	150 151	52 687
1478	8.8	15 30.28	4.4397	0.0582	53 37 45.3	13.189	0.493	77.4	510 511 610 611	53 656
1479	8.7	15 54.79	4.4732	0.0598	54 14 49.0	13.162	0.498	77.6	6 obs. [4]	54 679
1480	6.8	16 28.12	4.4372	0.0576	53 28 41.3	13.126	0.495	77.4	510 511 597 603	53 657
1481	9.3	3 16 30.75	+4.3467	+0.0529	+ 51 34 33.8	+13.123	−0.485	75.4	5 obs. [5]	51 730
1482	7.6	16 31.76	4.3807	0.0546	52 18 27.3	13.122	0.489	77.9	610 611	52 690
1483	8.4	16 38.88	4.3625	0.0536	51 54 18.0	13.114	0.487	78.1	624 625	51 731
1484	7.4	16 39.98	4.4087	0.0560	52 52 44.2	13.113	0.492	78.6	628 718 721	52 691
1485	7.4	16 58.65	4.3216	0.0514	50 58 19.8	13.092	0.483	74.6	5 obs. [6]	50 755
1486	9.3	3 17 2.04	+4.3197	+0.0513	+ 50 55 19.3	+13.088	−0.483	76.8	274 622 623	50 756
1487	9.6	17 7.49	4.4224	0.0565	53 6 44.4	13.082	0.494	77.9	597 603	53 659
1488	8.2	17 24.97	4.3930	0.0549	52 28 24.5	13.063	0.492	72.0	150 151	52 693
1489	8.4	17 37.28	4.3380	0.0520	51 16 13.0	13.049	0.486	71.0	22 23	51 733
1490	7.2	17 38.00	4.2997	0.0501	50 24 17.6	13.048	0.482	78.5	624 625 718 721	50 757
1491	9.4	3 17 46.50	+4.3005	+0.0501	+ 50 24 34.5	+13.039	−0.482	78.9	718 721	50 758
1492	8.7	18 0.47	4.2869	0.0493	50 4 15.6	13.024	0.481	79.0	5 obs. [7]	49 934
1493	9.4	18 12.20	4.3037	0.0501	50 26 18.6	13.011	0.483	78.8	207 274 765 767	50 759
1494	8.7	18 16.87	4.3624	0.0529	51 43 57.1	13.005	0.490	76.8	149 613 628 723	51 735
1495	9.3	18 27.66	4.3702	0.0533	51 52 55.0	12.993	0.491	79.0	725 727	— —
1496	8.9[8]	3 18 33.63	+4.5129	+0.0608	+ 54 44 7.0	+12.987	−0.507	77.0	511 512	54 682
1497	8.8	18 39.68	4.4196	0.0557	52 53 50.1	12.980	0.497	77.9	610 611	52 695
1498	9.4	18 42.27	4.3270	0.0510	50 54 47.2	12.977	0.487	75.0	364 365	50 761
1499	8.8	19 3.80	4.5406	0.0620	55 11 50.8	12.953	0.511	84.0	761 762	55 791
1500	7.8	19 4.62	4.3105	0.0501	50 30 6.5	12.952	0.486	74.8	5 obs. [9]	50 764

[1] Z. 452 454 510 511 597 603 [2] Z. 512 513 514 619 620 [3] Z. 512 513 514 619 620 721 722 723
[4] Z. 512 513 514 620 624 625 [5] Z. 23 149 613 621 626 [6] Z. 11 207 210 622 623
[7] Z. 11 622 623 761 762 [8] Dupl. maj.; Z. 510 513 514: $9^m.1$ & $9^m.2$ med. 33ˢ.62 7″.8 (77.1) [9] Z. 11 210 274 622 623

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1501	8.7	$3^h\,19^m\,28^s.56$	+4ˢ.4671	+0ˢ.0578	+ 53°45′53″.7	+12″.926	−0″.504	77.9	597 603	53°663
1502	8.6	19 40.25	4.4856	0.0587	54 6 16.9	12.913	0.506	75.0	366 368	54 683
1503	9.2	19 40.41	4.2913	0.0489	49 59 55.1	12.912	0.484	73.3	207 210 271	} 49 941
1504	8.1	19 40.63	4.2913	0.0489	49 59 57.1	12.912	0.484	74.0	271 272 273	
1505	8.7	20 6.88	4.4279	0.0555	52 55 4.0	12.883	0.500	72.0	150 151	52 697
1506	5.5	3 20 28.77	+4.5384	+0.0612	+ 55 1 3.0	+12.858	−0.514	77.4	510 511 610 611	54 684
1507	7.9	20 41.41	4.5353	0.0609	54 56 26.6	12.844	0.513	75.1	368 369	54 685
1508	8.5	20 50.00	4.4355	0.0556	53 0 1.1	12.835	0.502	78.1	622 623	52 698
1509	7.0	21 1.93	4.4101	0.0542	52 27 43.7	12.821	0.500	77.5	5 obs. [1]	52 699
1510	8.7	21 1.95	4.4801	0.0578	53 51 49.6	12.821	0.508	77.9	597 603	53 666
1511	8.9	3 21 5.74	+4.3382	+0.0506	+ 50 54 53.1	+12.817	−0.492	73.3	7 obs. [2]	50 770
1512	9.0	21 19.92	4.4496	0.0561	53 14 4.8	12.801	0.505	77.9	610 611	53 667
1513	8.4	21 41.36	4.3266	0.0498	50 35 50.5	12.777	0.492	75.0	364 365	50 771
1514	9.4	22 1.51	4.4525	0.0559	53 13 26.0	12.754	0.506	75.0	366 367	53 669
1515	9.4	22 2.98	4.4533	0.0559	53 14 8.7	12.753	0.507	77.1	512 513 514	[53 670]
1516	7.4	3 22 5.28	+4.3042	+0.0486	+ 50 3 1.3	+12.750	−0.490	73.3	7 obs. [3]	49 952
1517	9.1	22 25.39	4.3712	0.0517	51 30 3.1	12.727	0.498	79.1	724 725 727	— —
1518	8.0	22 45.84	4.3043	0.0484	49 59 0.9	12.704	0.491	73.0 73.4	6 obs. [4]	49 955
1519	9.0	22 55.96	4.5001	0.0580	54 3 43.7	12.693	0.514	75.1	368 369	53 672
1520	9.0	22 57.68	4.3502	0.0505	50 59 27.7	12.691	0.497	75.6	210 623	[50 776]
1521	8.8	3 23 6.30	+4.5382	+0.0599	+ 54 45 27.4	+12.681	−0.518	77.9	610 611	54 689
1522	9.1	23 10.70	4.4965	0.0577	53 58 8.6	12.676	0.514	77.1	5 obs. [5]	53 674
1523	9.3	23 14.49	4.3516	0.0504	50 59 38.0	12.672	0.497	76.4	207 622 623	50 777
1524	8.5	23 15.06	4.3814	0.0519	51 38 15.0	12.671	0.501	72.0	148 149	51 744
1525	8.2	23 19.84	4.4899	0.0573	53 49 36.3	12.666	0.513	78.1	613 624 625	53 675
1526	9.0	2 23 21.89	+4.3181	+0.0488	+ 50 14 14.5	+12.664	−0.494	76.7	15 626 718 721	50 778
1527	9.3	23 23.54	4.3554	0.0506	51 3 46.1	12.662	0.498	84.0	761 762 765	50 779
1528	9.1	23 36.57	4.3746	0.0514	51 27 25.4	12.647	0.501	76.6	274 723	51 745
1529	7.8	23 55.65	4.5630	0.0608	55 7 58.5	12.626	0.522	84.7	765 827 828	55 797
1530	8.8	24 5.29	4.4280	0.0538	52 31 36.1	12.614	0.508	75.1	5 obs. [6]	52 702
1531	6.9	3 24 8.55	+4.5322	+0.0591	+ 54 32 54.4	+12.611	−0.519	75.5	366 367 452 454	54 693
1532	9.4	24 12.26	4.3782	0.0514	51 28 32.8	12.607	0.502	77.7	510 511 613 718	51 748
1533	9.2	24 31.14	4.3961	0.0521	51 49 23.4	12.585	0.505	80.0	364 830	51 750
*1534	8.3	24 32.88	4.3982	0.0522	51 51 54.0	12.583	0.505	78.8	365 622 623 762	51 751
1535	9.0	25 4.96	4.3222	0.0483	50 9 30.1	12.547	0.497	72.3 72.6	6 obs. [7]	50 786
1536	8.8	3 25 7.31	+4.4644	+0.0552	+ 53 9 23.3	+12.544	−0.513	81.0	369 761 762	53 678
1537	8.9	25 29.19	4.4845	0.0560	53 30 52.8	12.519	0.516	77.4	510 511 597 603	53 679
1538	9.0	25 42.20	4.3314	0.0485	50 18 17.9	12.504	0.499	73.3	6 obs. [8]	50 787
1539	9.4	26 8.88	4.4860	0.0558	53 28 52.0	12.474	0.518	75.0	366 367	53 680
1540	7.6	27 6.86	4.4417	0.0532	52 30 44.0	12.408	0.514	73.0	207 208	52 703
1541	8.8	3 27 36.10	+4.4419	+0.0530	+ 52 28 13.9	+12.374	−0.515	73.3	150 272 273	52 704
1542	9.0	27 40.20	4.4870	0.0552	53 21 26.5	12.369	0.520	75.0	364 365 367 369	53 683
1543	8.2	27 41.21	4.4979	0.0557	53 33 58.1	12.368	0.522	77.4	510 511 597 603	53 684
1544	9.0	27 49.14	4.5283	0.0572	54 7 46.1	12.359	0.525	77.1	5 obs. [9]	54 696
1545	7.9	28 25.92	4.5654	0.0587	54 45 18.6	12.317	0.531	82.8	5 obs. [10]	54 698
1546	9.1	3 28 28.18	+4.4896	+0.0550	+ 53 20 1.4	+12.314	−0.522	81.1	366 765 767	53 688
1547	8.8	29 0.96	4.4344	0.0521	52 11 4.8	12.276	0.516	73.5	207 208 272 273	52 705
1548	8.6	29 7.47	4.4992	0.0552	53 27 23.3	12.269	0.524	77.4	5 obs. [11]	53 690
1549	8.1	29 46.52	4.4488	0.0524	52 24 21.1	12.224	0.520	73.0	150 151 272 273	52 706
1550	9.2	30 50.78	4.5936	0.0590	55 2 26.6	12.149	0.538	75.0	5 obs. [12]	54 701

[1] Z. 512 513 514 624 625
[2] Z. 11 207 210 271 272 273 274
[3] Z. 6 207 210 271 272 273 274
[4] Z. 9α 11 271 272 273 274
[5] Z. 510 511 512 513 514
[6] Z. 150 151 512 513 514
[7] Z. 6 9α 11 210 271 274
[8] Z. 13 210 271 272 273 274
[9] Z. 454 512 513 514 613
[10] Z. 454 761 762 827 828
[11] Z. 512 513 514 610 611
[12] Z. 364 365 366 367 369

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1551	9.1	$3^h 31^m 15^s.51$	+4s.4319	+0s.0510	+ 51°55′29″.9	+12″.121	−0″.520	73.3	25 205 206 452	51° 759
1552	9.0	31 18.44	4.4163	0.0503	51 36 1.2	12.117	0.518	72.0	148 149	51 760
1553	9.4	31 21.63	4.4056	0.0498	51 22 21.6	12.114	0.517	73.0	207 208	51 761
1554	9.1	31 34.06	4.5181	0.0550	53 35 35.4	12.099	0.531	77.4	5 obs. [1]	53 691
1555	8.6	32 16.31	4.3965	0.0490	51 5 47.9	12.050	0.518	72.4	25 205 206	51 762
1556	8.2	3 32 16.91	+4.3647	+0.0476	+ 50 24 45.2	+12.049	−0.514	72.3	6 207 208	50 800
1557	9.4	32 25.24	4.4854	0.0530	52 53 16.4	12.040	0.528	72.0	150 151	52 708
1558	8.4	32 26.73	4.5722	0.0572	54 30 54.0	12.038	0.539	75.0	366 367	54 703
1559	9.0	32 28.81	4.3868	0.0484	50 52 15.5	12.035	0.517	75.4	272 452 454	50 801
1560	9.4	32 32.67	4.5552	0.0563	54 11 48.1	12.031	0.537	77.0	364 365 718 721	54 704
1561	9.0	3 32 36.21	+4.5551	+0.0563	+ 54 11 21.7	+12.027	−0.537	77.2	5 obs. [2]	54 705
1562	9.0	33 15.27	4.6101	0.0587	55 7 0.4	11.981	0.544	84.0	761 762	55 816
1563	8.2	33 17.64	4.4396	0.0506	51 53 44.8	11.978	0.524	71.0	23 25	51 763
1564	7.6	33 27.17	4.3865	0.0481	50 46 32.7	11.966	0.518	70.9	9 11	50 802
1565	8.6	33 49.56	4.4112	0.0490	51 15 51.6	11.941	0.522	77.3	5 obs. [3]	51 764
1566	9.1	3 33 51.00	+4.5347	+0.0547	+ 53 42 8.3	+11.939	−0.536	76.6	369 512 513 514	53 694
1567	9.7	34 3.56	4.3728	0.0472	50 25 28.9	11.924	0.518	72.3	15 207 208	50 803
1568	9.5	34 5.78	4.4056	0.0487	51 7 17.6	11.922	0.522	78.6	626 718 721	51 765
1569	8.6	34 10.69	4.3975	0.0483	50 56 34.6	11.916	0.521	74.0	272 273	50 804
1570	8.9	34 20.16	4.5066	0.0532	53 7 36.7	11.905	0.534	77.5	5 obs. [4]	53 696
1571	9.0	3 34 40.09	+4.4542	+0.0506	+ 52 4 7.4	+11.882	−0.528	71.7	23 150 151	52 709
1572	8.7	34 58.48	4.4229	0.0491	51 24 11.0	11.860	0.525	75.0	364 365	51 767
1573	9.2	35 1.37	4.3524	0.0460	49 53 37.6	11.857	0.517	72.3	15 207 208	49 1010
1574	7.4	35 31.61	4.3660	0.0464	50 8 42.1	11.821	0.519	73.0	6 272 273	50 809
1575	9.8	35 45.90	4.3633	0.0462	50 3 58.6	11.804	0.520	80.4	207 761 765	50 811
1576	6.8	3 36 11.30	+4.5990	+0.0567	+ 54 40 5.8	+11.774	−0.548	75.0	366 367	54 707
1577	9.6	36 22.54	4.6034	0.0569	54 43 46.4	11.761	0.549	76.0	452 454	54 708
1578	8.9	36 33.90	4.4854	0.0513	52 31 15.4	11.748	0.535	72.0	150 151	52 711
1579	8.2	36 35.33	4.5372	0.0536	53 30 34.1	11.746	0.542	77.7	5 obs. [5]	53 698
1580	9.0	36 35.94	4.4594	0.0501	52 0 9.3	11.745	0.532	75.8	25 272 273 761	51 770
1581	9.2	3 36 37.76	+4.4282	+0.0487	+ 51 21 59.1	+11.743	−0.528	72.0	148 149	51 772
1582	8.2	36 45.36	4.3655	0.0459	50 1 28.4	11.734	0.521	70.9	9 11	49 1015
1583	8.9	37 10.10	4.4644	0.0501	52 3 9.2	11.705	0.534	75.0	364 365	51 773
1584	9.4	37 26.52	4.4049	0.0473	50 48 31.8	11.685	0.527	72.0	15 207	50 816
1585	9.0	37 32.20	4.4030	0.0472	50 45 36.7	11.678	0.527	76.4	208 624 625	50 818
1586	9.0	3 37 34.26	+4.4025	+0.0472	+ 50 44 49.0	+11.676	−0.527	78.1	624 625	[50 819]
1587	6.9	37 52.34	4.4311	0.0483	51 18 57.3	11.655	0.531	74.8	25 156 622 623	51 774
1588	9.4	37 56.90	4.5463	0.0535	53 33 46.5	11.649	0.545	77.7	5 obs. [6]	53 699
1589	9.2	38 3.43	4.3682	0.0455	49 58 7.6	11.642	0.524	79.1	728 729	[49 1021]
1590	8.6	38 7.00	4.5935	0.0556	54 24 25.4	11.637	0.551	75.1	368 369	54 710
1591	8.8	3 38 14.44	+4.5562	+0.0538	+ 53 43 15.2	+11.628	−0.546	78.1	626 627	53 700
1592	8.2	38 21.54	4.6093	0.0562	54 39 59.8	11.620	0.553	76.0	452 454	54 711
1593	7.1	38 23.18	4.4246	0.0478	51 8 18.2	11.618	0.531	74.0	272 273	51 775
1594	9.0	38 23.29	4.5203	0.0521	53 2 10.0	11.618	0.542	79.0	722 723	52 712
1595	9.6	38 25.48	4.4079	0.0471	50 47 10.8	11.615	0.529	78.1	624 625	50 821
1596	7.9	3 38 28.45	+4.3700	+0.0455	+ 49 58 20.6	+11.612	−0.525	79.1	728 729	49 1024
1597	9.3	38 29.40	4.4718	0.0498	52 5 10.1	11.610	0.537	72.0	150 151	52 713
1598	9.2	38 56.35	4.4248	0.0476	51 5 43.0	11.579	0.532	75.8	25 626 627	51 776
1599	8.6	39 2.07	4.4524	0.0488	51 39 2.4	11.572	0.535	72.0	148 149	51 777
1600	7.0	39 5.93	4.3899	0.0461	50 20 49.7	11.567	0.528	75.3	6 18 767	50 825

[1] Z. 512 513 514 610 611 [2] Z. 364 365 613 718 721 [3] Z. 452 454 613 628 629
[4] Z. 512 513 514 613 624 [5] Z. 513 514 613 624 625 [6] Z. 513 514 613 628 629

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1601	5.6	3h 39m 10.40	+4.3904	+0.0461	+ 50° 21′ 0.6	+11.562	−0.528	78.1	628 629	50° 825 [1]
1602	8.7	39 13.77	4.5530	0.0532	53 34 41.2	11.558	0.548	75.0	366 367	53 701
1603	8.8	39 15.89	4.5453	0.0528	53 25 58.6	11.555	0.547	77.7	5 obs. [2]	53 702
1604	7.5	39 19.51	4.4430	0.0483	51 26 6.3	11.551	0.535	75.0	364 365	51 778
1605	7.7	39 23.09	4.4215	0.0473	50 59 14.8	11.547	0.532	74.7 72.0	5 obs. [3]	50 828
1606	8.8	3 39 25.88	+4.3964	+0.0462	+ 50 27 22.5	+11.543	−0.529	78.7	6 obs. [4]	50 829
1607	8.4	39 27.91	4.4503	0.0485	51 34 19.5	11.541	0.536	75.3	156 205 622 623	51 779
1608	7.1	39 40.76	4.3974	0.0462	50 27 17.8	11.525	0.530	76.0	272 273 624 625	50 831
1609	8.6	39 44.93	4.3911	0.0459	50 18 58.9	11.521	0.529	82.0	631 916	50 832
1610	8.8	40 1.96	4.3776	0.0452	50 0 5.2	11.500	0.528	82.7	629 767 916 [5]	49 1032
1611	7.2	3 40 2.79	+4.4878	+0.0499	+ 52 16 6.5	+11.499	−0.541	77.4	454 626 627	52 714
1612	8.2	40 4.11	4.5984	0.0549	54 19 52.4	11.498	0.554	79.6	368 761	54 713
1613	7.8	40 10.88	4.4039	0.0463	50 32 59.5	11.490	0.531	71.0	18 21	50 834
1614	8.8	40 29.09	4.4175	0.0467	50 48 35.4	11.468	0.533	72.6	6 obs. [6]	50 835
1615	9.5	40 53.40	4.4794	0.0492	52 1 54.1	11.439	0.542	78.1	622α 623	[51 784]
1616	8.9	3 40 53.88	+4.3984	+0.0458	+ 50 22 26.4	+11.438	−0.532	78.1	624 625	50 836
1617	6.6	41 1.02	4.4832	0.0493	52 5 50.6	11.430	0.542	72.0	150 151	52 715
1618	8.2	41 2.90	4.6068	0.0549	54 23 59.3	11.427	0.557	75.0	366 367	54 714
1619	9.8	41 5.29	4.4796	0.0491	52 1 8.6	11.424	0.542	74.6	25 622	51 785
1620	8.3	41 10.79	4.6400	0.0563	54 58 0.3	11.418	0.562	77.1	5 obs. [7]	54 715
1621	7.6	3 41 37.96	+4.6051	+0.0545	+ 54 19 19.2	+11.385	−0.558	78.1	622 623 624 625	54 717
1622	8.8	41 46.64	4.5421	0.0516	53 9 47.5	11.375	0.550	77.7	5 obs. [8]	53 705
1623	8.7	41 55.32	4.4195	0.0462	50 43 47.4	11.364	0.536	73.8	6 obs. [9]	50 841
1624	9.3	41 55.83	4.4314	0.0467	50 58 37.6	11.364	0.537	70.9 71.0	5 obs. [10]	50 840
1625	8.4	41 57.12	4.4885	0.0492	52 7 20.3	11.362	0.544	76 0	452 454	52 716
1626	8.4	3 42 9.33	+4.5754	+0.0529	+ 53 44 46.4	+11.348	−0.555	75.1	368 369	53 706
1627	7.0	42 52.75	4.4078	0.0454	50 24 14.6	11.295	0.536	70.9	9 11	50 847
1628	8.7	43 10.50	4.4374	0.0465	50 59 40.8	11.274	0.540	72.2	5 obs. [11]	50 848
1629	8.2	43 16.93	4.5456	0.0511	53 6 17.8	11.266	0.553	75.0	366 367	53 708
1630	9.0	43 27.60	4.4438	0.0466	51 6 8.2	11.253	0.541	71.0	23 25	51 792
1631	7.8	3 43 42.00	+4.4239	+0.0457	+ 50 40 22.4	+11.236	−0.539	73.0	208 209	50 849
*1632	8.4	43 43.12	4.4836	0.0482	51 52 50.6	11.235	0.546	73.0	205 206	51 793
1633	8.4	44 9.65	4.5013	0.0488	52 11 23.8	11.203	0.549	74.6	150 151 513 514	52 720
1634	7.8	44 13.22	4.5386	0.0504	52 53 54.7	11.198	0.554	75.0	364 365	52 722
1635	9.0	44 26.06	4.5016	0.0487	52 10 21.1	11.183	0.550	76.0	452 454	52 723
1636	8.8	3 44 26.13	+4.3946	+0.0443	+ 49 59 42.2	+11.183	−0.537	73.4	156 272 273	49 1050
1637	8.1	44 26.24	4.4219	0.0454	50 34 11.8	11.182	0.540	71.0	15 18 21	50 851
1638	9.2	44 34.94	4.6305	0.0543	54 31 49.8	11.172	0.566	75.1	368 369	54 719
1639	8.4	44 56.30	4.4534	0.0465	51 10 29.2	11.146	0.544	71.0	23 25	51 796
1640	8.9	45 0.31	4.3993	0.0443	50 2 54.2	11.141	0.538	73.0	208 209	49 1054
1641	7.9	3 45 23.66	+4.4994	+0.0482	+ 52 3 5.1	+11.113	−0.551	77.2 75.8	6 obs. [12]	51 798
1642	8.3	45 31.69	4.3978	0.0440	49 58 23.6	11.103	0.539	71.0	6 15 18 21	49 1058
1643	9.1	45 43.91	4.4992	0.0481	52 1 20.6	11.088	0.551	84.7 84.6	761 829α 830	51 799
1644	9.0	45 48.05	4.4540	0.0462	51 7 3.4	11.083	0.546	78.1	613 619 620	51 800
1645	8.3	45 50.18	4.5610	0.0506	53 11 4.6	11.081	0.559	75.0	366 367	53 712
1646	9.0	3 46 2.93	+4.5795	−0.0514	+ 53 30 26.5	+11.065	−0.562	77.5	513 514 596 600	53 713
1647	9.0	46 3.33	4.5212	0.0489	52 25 11.3	11.065	0.555	72.0	150 152	52 724
1648	7.0	46 10.64	4.5139	0.0485	52 16 10.8	11.056	0.554	75.0	364 365	52 726
1649	8.8	46 13.16	4.4945	0.0477	51 53 23.4	11.053	0.552	71.0	23 25	51 802
1650	6.5	46 13.58	4.4925	0.0476	51 51 4.3	11.052	0.551	73.0	208 209	51 803

[1] Seq.
[2] Z. 513 514 613 619 620
[3] Z. 9 15 207 208 914α
[4] Z. 272 273 624 625 761 767
[5] [Z. 914 9m.2 2s.43 10.″6 (85.9)]
[6] Z. 9 15 207 208 272 273
[7] Z. 452 454 514 619 620
[8] Z. 513 514 613 619 620
[9] Z. 156 208 272 273 364 365
[10] Z. 6 9 15α 18 21
[11] Z. 15 18 21 272 273
[12] Z. 205 206 272 273 765α 828

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
*1651	9.1	3h 46m 19s.18	+4s.5012	+0s.0479	+ 52° 0′ 50″.4	+11″.045	−0″.552	73.0	205 206	51° 804
1652	8.4	46 51.05	4.5112	0.0481	52 9 55.6	11.007	0.554	74.0	272 273	52 728
1653	8.9	46 59.41	4.6410	0.0536	54 31 20.9	10.996	0.571	75.7	368 452 454	54 722
1654	5.8	47 19.25	4.4217	0.0443	50 19 51.5	10.972	0.544	72.8	5 obs. [1]	50 860
1655	9.2	48 0.06	4.4974	0.0471	51 48 22.4	10.922	0.555	72.5	23 25 272 273	51 810
1656	8.8	3 48 2.05	+4.4322	+0.0444	+ 50 29 27.7	+10.920	−0.547	71.0	6 15 18 21	50 864
1657	8.0	48 32.55	4.4974	0.0468	51 45 46.4	10.882	0.555	72.7	150 208 209 [2]	51 812
1658	8.7	48 47.57	4.4784	0.0460	51 22 5.5	10.864	0.554	73.0	205 206	51 814
1659	8.6	48 55.95	4.6033	0.0511	53 42 40.9	10.854	0.569	78.1	631 632	53 717
1660	6.7	48 59.54	4.5987	0.0509	53 37 29.6	10.849	0.569	75.0	364 365	53 718
1661	7.6	3 49 29.18	+4.4695	+0.0454	+ 51 8 10.0	+10.813	−0.553	72.7	9 obs. [3]	51 817
1662	9.1	49 56.43	4.5191	0.0472	52 4 29.0	10.780	0.560	76.0	452 454	[52 730]
1663	9.1	50 7.11	4.5134	0.0469	51 57 3.8	10.766	0.560	84.7	761 765 913	51 819
1664	9.1	50 17.11	4.4804	0.0455	51 17 33.6	10.754	0.556	81.1	620 767	51 820
1665	9.4	50 32.43	4.4438	0.0440	50 32 4.7	10.735	0.552	71.0	6 15 18 21	50 871
1666	8.3	3 50 56.18	+4.5502	+0.0480	+ 52 35 15.7	+10.706	−0.566	78.0	6 obs. [4]	52 734
*1667	9.0	50 56.89	4.5572	0.0483	52 42 58.3	10.705	0.566	76.0	150 272 273 761	52 732
1668	9.5	51 3.47	4.6348	0.0515	54 6 16.6	10.697	0.576	75.1	368 369	54 727
*1669	9.2	51 4.70	4.5371	0.0474	52 19 49.2	10.695	0.564	80.0	596 600 767	52 733
1670	8.8	51 13.48	4.5535	0.0481	52 37 37.8	10.685	0.566	81.0	452 916	52 735
*1671	8.6	3 51 19.00	+4.4623	+0.0444	+ 50 50 57.3	+10.678	−0.555	73.0	208 209	50 873
1672	8.5	51 20.60	4.4645	0.0444	50 53 31.0	10.676	0.556	70.9	9 11	50 874
1673	8.5	51 35.49	4.5118	0.0462	51 48 29.2	10.657	0.562	72.0	23 25 205 206	51 827
1674	6.6	51 57.83	4.6049	0.0499	53 30 34.9	10.630	0.574	75.0	366 367	53 722
1675	8.4	52 18.02	4.4426	0.0432	50 22 26.0	10.605	0.554	71.0	9 11 18 21	50 878
1676	8.2	3 52 31.69	+4.4391	+0.0430	+ 50 17 1.9	+10.588	−0.554	72.3	15 156 208 209	50 882
1677	9.6	52 33.10 [5]	4.5382	0.0469	52 14 20.3	10.586	0.566	84.1 79.0	272δ 765α 767	52 740
1678	9.5	52 34.07	4.4316	0.0427	50 7 30.0	10.585	0.553	73.1	211 212 213	50 883
1679	8.5	52 36.95	4.6014	0.0494	53 23 55.2	10.581	0.574	76.8	7 obs. [6]	53 723
1680	8.8	52 41.75	4.5538	0.0474	52 31 21.9	10.576	0.569	81.3	150 913 914	52 741
1681	9.0	3 52 44.04	+4.4908	+0.0449	+ 51 18 39.0	+10.573	−0.561	71.0	23 25	51 833
1682	9.3	52 55.40	4.6431	0.0510	54 6 39.1	10.558	0.580	77.9	596 600	} 54 731
1683	8.9	52 56.45	4.6432	0.0510	54 6 —	10.557	0.580	77.9	596α 600α	
1684	8.9	53 13.06	4.5174	0.0458	51 47 37.2	10.537	0.565	73.0	205 206	51 835
1685	8.6	53 20.56	4.5502	0.0470	52 24 24.6	10.527	0.569	84.1	765 767	52 745
*1686	8.0	3 53 32.94	+4.5441	+0.0467	+ 52 16 38.4	+10.512	−0.569	74.0	272 273	52 746
1687	8.6	53 37.40	4.6613	0.0514	54 22 24.8	10.506	0.584	77.9	596 600	54 733
1688	8.2	53 49.55	4.4424	0.0426	50 15 12.2	10.491	0.557	70.9	6 9 11	50 885
1689	8.7	54 5.22	4.5059	0.0450	51 30 16.7	10.472	0.565	75.7	23 25 827	51 839
1690	9.2	54 6.29	4.5172	0.0454	51 43 22.0	10.470	0.566	73.0	208 209	51 840
1691	9.5	3 54 10.90	+4.5202	+0.0455	+ 51 46 27.0	+10.465	−0.567	73.1	211 212 213	51 841
1692	7.9	54 14.54	4.5821	0.0479	52 55 48.6	10.460	0.574	76.7	273 626 627	52 750
1693	8.8	54 21.08	4.5092	0.0450	51 32 55.0	10.452	0.566	80.0	365 828	51 843
1694	9.2	54 26.61	4.4559	0.0429	50 28 57.2	10.445	0.559	71.0	15 18 21	50 887
1695	8.1	54 44.67	4.5869	0.0479	52 58 47.6	10.423	0.576	80.7	272 767 771	52 752
1696	9.0	3 54 44.96	+4.5562	+0.0467	+ 52 24 56.3	+10.422	−0.572	72.0	150 152	52 751
1697	7.2	54 46.89	4.6867	0.0520	54 43 9.5	10.420	0.588	75.0	366 367	54 734
1698	8.6	54 57.91	4.6825	0.0517	54 38 4.4	10.406	0.588	77.0 77.5	5 obs. [7]	54 735
1699	8.8	55 28.99	4.4719	0.0431	50 43 42.7	10.367	0.563	70.9	9 11 15	50 889
1700	8.7	55 39.86	4.5629	0.0466	52 28 18.1	10.354	0.574	75.9	5 obs. [8]	52 753

[1] Z. 156 205 206 208 209

[2] [Z. 151 9m.5 32s.67 49s.2 (72.0)]

[3] Z. 23 25 156 205 206 208 209 272 273

[4] Z. 364 365 454 619 620 914

[5] [33s.51] 33s.07 33s.13

[6] Z. 369 452 454 513 514 619 620

[7] Z. 369α 513 514 596 600

[8] Z. 211 212 272 273 832

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1701	9.6	3h 55m 40.98	+4.5191	+0.0449	+ 51° 38′ 32.7	+10.352	−0.569	71.0	23 25	51° 848
1702	8.7	55 47.94	4.4735	0.0431	50 44 13.9	10.344	0.563	71.0	18 21	50 894
1703	9.0	55 52.68	4.5668	0.0467	52 31 46.0	10.338	0.575	84.6	767 830	52 757
*1704	...	55 54.19	4.5903	0.0476	52 57 29.7	10.336	0.578	85.1	829	52 758
1705	9.0	55 56.37	4.6878	0.0515	54 39 17.0	10.333	0.590	75.1	368 369	54 736
1706	8.2	3 56 3.58	+4.5784	+0.0470	+ 52 43 48.1	+10.324	−0.577	78.1	630 631 632	52 759
1707	8.6	56 16.32	4.4592	0.0424	50 24 53.9	10.308	0.562	71.7	6 156 157	50 896
1708	8.4	56 24.71	4.6086	0.0481	53 15 2.9	10.298	0.581	77.5	513 514 596 600	53 730
1709	8.8	56 27.44	4.5229	0.0447	51 39 30.8	10.294	0.570	73.0	209 210	51 850
1710	9.2	56 30.74	4.5842	0.0471	52 48 8.0	10.290	0.578	-85.9	913 914	52 761
1711	9.0	3 56 42.08	+4.5818	+0.0469	+ 52 44 45.1	+10.276	−0.578	76.4	150 152 834	52 763
1712	6.2	56 52.89	4.6341	0.0488	53 40 7.9	10.263	0.585	75.0	365 366 367	53 732
1713	6.2	57 16.82	4.4430	0.0414	50 0 35.9	10.233	0.562	72.4	9 11 272 273	49 1101
1714	8.9	57 20.76	4.5950	0.0471	52 56 18.5	10.228	0.581	73.1	211 212 213	52 766
1715	9.0	57 22.11	4.5317	0.0447	51 45 40.8	10.226	0.573	71.0	23 25	51 852
1716	8.5	3 57 26.10	+4.4546	+0.0418	+ 50 14 6.6	+10.221	−0.563	71.0	15 18 21	50 901
1717	8.8	57 46.14	4.5087	0.0436	51 17 22.6	10.196	0.571	73.0	209 210	51 856
1718	9.4	58 4.17	4.6019	0.0471	53 0 45.7	10.173	0.583	79.0	722 725 727	— —
1719	8.8	58 11.14	4.5947	0.0468	52 52 27.4	10.164	0.582	78.3	630 631 632 723	52 769
1720	8.4	58 11.40	4.5862	0.0464	52 43 9.2	10.164	0.581	84.1	765 771	52 768
1721	7.6	3 58 19.20	+4.5017	+0.0432	+ 51 6 46.7	+10.154	−0.570	73.0	209 210	51 861
1722	8.9	58 20.00	4.4692	0.0420	50 27 56.2	10.153	0.566	85.0	767 831 913	50 904
1723	8.8	58 37.42	4.4422	0.0409	49 53 43.6	10.131	0.564	84.8	765 830 832	49 1103
1724	9.5	58 53.22	4.4609	0.0414	50 15 30.7	10.111	0.566	73.1	211 212	[50 906]
1725	9.0	58 55.76	4.6073	0.0469	53 2 53.9	10.108	0.585	75.7	5 obs. [1]	52 770
1726	7.2	3 58 59.50	+4.6061	+0.0468	+ 53 1 23.1	+10.103	−0.585	77.8	6 obs. [2]	52 771
1727	7.8	59 4.79	4.4788	0.0420	50 36 17.9	10.097	0.569	77.9	5 obs. [3]	50 908
1728	9.2	59 5.18	4.6508	0.0485	53 48 16.8	10.096	0.590	75.1	368 369	53 736
1729	9.0	59 23.37	4.6068	0.0467	53 0 26.3	10.073	0.585	84.1	767	52 772
*1730	...	59 28.58	4.4457	0.0407	49 54 27.2	10.067	0.565	84.1	772	49 1106
1731	6.6	3 59 30.85	+4.6932	+0.0500	+ 54 29 44.7	+10.064	−0.596	77.0	455 456 596 600	54 740
1732	8.5	59 41.10	4.4934	0.0423	50 51 15.3	10.051	0.572	79.1	725 727	[50 909]
1733	8.6	4 0 10.96	4.6397	0.0476	53 32 8.9	10.013	0.591	75.0	366 367	53 738
1734	9.2	0 30.74	4.7086	0.0502	54 40 57.6	9.988	0.600	77.9	596 600	54 741
1735	8.4	0 30.85	4.5928	0.0457	52 40 35.4	9.988	0.585	76.6	150 622 628 629	52 776
1736	8.9	4 0 32.09	+4.5649	+0.0446	+ 52 9 46.8	+ 9.987	−0.582	78.1	630 631 632	52 777
1737	8.8	0 32.48	4.6886	0.0494	54 20 55.1	9.986	0.597	79 0	722 723	54 742
1738	8.7	0 37.74	4.6021	0.0460	52 50 13.2	9.980	0.586	78.1	626 627	52 778
1739	9.0	0 44.67	4.6218	0.0467	53 10 51.3	9.971	0.589	76.1	455 456	53 739
1740	9.7	0 50.10	4.5299	0.0432	51 28 49.2	9.964	0.578	72.6	156 210	51 869
1741	8.0	4 1 3.09	+4.6028	+0.0458	+ 52 49 12.7	+ 9.947	−0.587	78.1	622 626 627	52 779
1742	9.5	1 11.90	4.5137	0.0425	51 8 36.5	9.936	0.576	80.4	212 765 767	51 870
1743	8.2	1 41.60	4.4568	0.0403	49 58 38.6	9.898	0.570	70.9	5 obs. [4]	49 1117
1744	7.8	3 0.34	4.6829	0.0480	54 5 9.4	9.798	0.600	78.1	622 624 625	54 745
1745	9.0	3 1.02	4.6456	+0.0466	53 26 44.6	9.798	0.595	76.0	368 369 600	53 742
1746	9.3	4 3 8.58	+4.5614	+0.0434	+ 51 55 8.8	+ 9.788	−0.585	71.0	23 25	51 878
1747	8.4	3 11.54	4.4941	0.0410	50 37 15.2	9.784	0.576	70.9	13 15	50 927
1748	7.8	3 11.60	4.5053	0.0414	50 50 29.2	9.784	0.578	70.9	9 11	50 926
1749	8.8	3 11.75	4.6415	0.0464	53 21 42.4	9.784	0.595	76.1	455 456	53 743
1750	8.4	3 16.78	4.6449	0.0465	53 24 55.8	9.778	0.596	77.9	596 600	53 744

[1] Z. 150 152 626 628 629 [2] Z. 513 514 624 625 628 629 [3] Z 156 157 365 827 829 [4] Z. 6 13 15 18 21

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B.D.
1751	9.2	$4^h\ 3^m 21^s.26$	+4.s5630	+0.s0434	+ 51°56′ 0.″1	+9.″772	−0.″585	73.0	209 210	51° 879
1752	8.9	3 29.53	4.6007	0.0448	52 37 2.4	9.761	0.590	72.0	150 152	52 784
1753	9.2	3 31.80	4.4677	0.0400	50 4 12.6	9.758	0.573	74.0	213 365	[50 928]
1754	9.0	3 45.24	4.4647	0.0398	49 59 41.0	9.741	0.574	72.1	156 157	49 1128
1755	8.8	4 1.55	4.4724	0.0399	50 7 55.5	9.721	0.575	77.3	5 obs. [1]	50 929
1756	9.4	4 4 14.58	+4.5659	+0.0432	+ 51 55 42.0	+9.704	−0.587	71.0	23 25	51 880
1757	9.0	4 16.36	4.6856	0.0476	54 2 56.4	9.702	0.602	75.0	366 367	53 746
1758	9.2	4 19.34	4.6150	0.0449	52 49 3.5	9.698	0.593	78.4	622 624 625	52 787
1759	7.8	4 32.07	4.6957	0.0478	54 12 5.2	9.682	0.604	76.1	455 456	54 749
1760	7.9	4 32.31	4.4753	0.0398	50 9 18.0	9.681	0.576	70.9	6 9 11	50 932
1761	8.7	4 4 35.26	+4.5399	+0.0421	+ 51 24 53.4	+9.678	−0.584	73.0	209 210 213	51 882
1762	8.7	4 38.86	4.5448	0.0423	51 30 18.1	9.673	0.585	76.1	5 obs. [2]	51 883
1763	9.2	5 13.21	4.4885	0.0401	50 22 26.4	9.629	0.578	70.9	13 15	50 934
1764	8.3	5 19.60	4.7256	0.0486	54 38 40.6	9.621	0.609	78.7 78.8	5 obs. [3]	54 751
1765	8.5	5 29.64	4.5169	0.0409	50 54 42.3	9.608	0.582	81.3	21 767 771 916	50 940
1766	8.2	4 5 30.30	+4.6515	+0.0458	+ 53 22 59.0	+9.607	−0.600	75.1	368 369	53 748
1767	9.1	5 32.42	4.7268	0.0486	54 39 1.6	9.604	0.609	80.6	456 829	54 752
1768	9.5	5 33.62	4.6378	0.0452	53 8 26.6	9.603	0.598	77.9	596 600	53 749
1769	7.4	5 37.54	4.4896	0.0400	50 22 1.7	9.598	0.579	71.6	9 11 210	50 941
1770	9.0	5 42.31 [4]	4.5184	0.0409	50 55 36.2	9.592	0.583	78.4 80.9	18 913δ 916	[50 942]
1771	8.8	4 5 47.18	+4.4989	+0.0402	+ 50 32 26.5	+9.586	−0.580	85.1	827 828 831	} 50 944
1772	8.8	5 51.68	4.4989	0.0402	50 32 11.0	9.580	0.580	85.1	5 obs. [5]	
1773	8.9	5 52.24	4.4990	0.0402	50 32 13.1	9.579	0.580	75.3	156 157 209 767	50 946
1774	8.9	6 34.26	4.5009	0.0400	50 31 40.4	9.525	0.582	71.6	13 15 209	50 955
1775	9.4	6 53.94	4.6154	0.0438	52 39 23.1	9.500	0.597	72.0	150 152	52 793
1776	8.4	4 6 54.78	+4.4965	+0.0397	+ 50 25 8.4	+9.499	−0.582	71.2	6 9 11 210	50 959
1777	5.6	6 58.47	4.6519	0.0451	53 17 44.5	9.494	0.602	75.6	366 367 455 456	53 750
1778	9.0	7 3.63	4.6007	0.0433	52 22 56.5	9.488	0.595	73.1	212 213	52 794
1779	8.8	7 3.96	4.5300	0.0408	51 3 43.2	9.487	0.586	71.0	23 25	51 893
1780	8.8	7 9.04	4.4918	0.0394	50 18 37.8	9.480	0.581	71.0	18 21	50 961
1781	8.8	4 7 25.14	+4.6394	+0.0445	+ 53 2 55.7	+9.460	−0.601	78.1	619 624 625	52 798
1782	7.2	7 46.14	4.5061	0.0397	50 33 6.1	9.433	0.584	72.0	13 157 209	50 963
1783	8.2	8 0.65	4.7064	0.0466	54 9 24.4	9.414	0.610	77.9	596 600	54 757
1784	8.6	8 3.06	4.6290	0.0438	52 49 30.8	9.411	0.600	78.1	624 625	52 801
1785	8.4	8 6.16	4.6782	0.0456	53 40 32.9	9.407	0.606	75.1	368 369	53 751
1786	9.2	4 8 7.00	+4.5048	+0.0395	+ 50 30 7.6	+9.406	−0.584	71.5	9 156	50 965
1787	9.3	8 8.08	4.5870	0.0423	52 3 40.0	9.404	0.595	76.1	455 456	52 802
1788	9.0	8 11.00	4.5121	0.0398	50 38 31.4	9.401	0.585	84.1	765 767	50 966
1789	9.0	8 14.26	4.5813	0.0421	51 56 59.4	9.396	0.595	71.0	23 25	51 897
1790	5.3	8 51.07	4.4811	0.0385	49 59 9.3	9.349	0.582	72.4	13 212 213	49 1150
1791	8.0	4 8 53.26	+4.6229	+0.0433	+ 52 39 47.9	+9.346	−0.600	72.0	150 152	52 806
1792	8.0	8 55.00	4.6538	0.0443	53 12 17.2	9.344	0.604	75.0	366 367	53 754
1793	9.1	8 56.78	4.7201	0.0467	54 19 26.2	9.342	0.613	76.1	455 456	54 758
1794	8.1	8 57.78	4.5711	0.0414	51 42 52.0	9.340	0.594	73.0	209 210	51 899
1795	8.2	9 48.06	4.5386	0.0400	51 2 52.9	9.276	0.591	70.9	9 11 13	50 971
1796	8.7	4 9 52.26	+4.6215	+0.0428	+ 52 34 28.3	+9.270	−0.602	76.3	212 596 600	52 808
1797	9.0	10 14.76	4.5798	0.0412	51 47 39.9	9.241	0.600	71.0	23 25	51 903
1798	9.4	10 21.96	4.5893	0.0415	51 57 41.8	9.232	0.598	72.1	156 157	51 904
1799	6.5	10 43.89	4.5191	0.0390	50 36 54.4	9.203	0.589	71.0	13 18 21	50 973
1800	8.2	10 59.75	4.6520	0.0434	53 2 34.0	9.183	0.607	72.0	150 152	52 810

[1] Z. 211 212 628 629 767 [2] Z. 211 212 626 628 629 [3] Z. 455 456 624α 625 829
[4] 42.s26 [41.s83] 42.s36 [5] Z. 827 828 830 831 832

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1801	7.4	$4^h\,11^m\,1^s.92$	+4ˢ.7842	+0ˢ.0481	+ 55°13′33″.6	+9″.180	−0″.624	84.1	765 767	55° 868
1802	7.6	11 6.03	4.7827	0.0480	55 11 58.2	9.174	0.624	84.1	765 767	55 869
1803	8.3	11 15.20	4.5310	0.0392	50 48 40.6	9.162	0.592	70.9	9 11	50 975
1804	8.9	11 18.12	4.7635	0.0472	54 53 0.6	9.159	0.622	75.1	368 369	54 761
1805	8.8	11 18.25	4.4869	0.0378	49 56 37.6	9.159	0.586	82.0	723 830	49 1160
1806	8.2	4 11 29.25	+4.4940	+0.0379	+ 50 4 21.8	+9.144	−0.587	79.0	212 619 914	50 976
1807	8.6	11 29.63	4.4887	0.0377	49 58 3.4	9.144	0.587	79.9 78.3	5 obs. [1]	49 1161
1808	7.5	11 33.87	4.4880	0.0377	49 57 1.5	9.138	0.587	79.8	6 obs. [2]	49 1162
1809	7.8	11 34.36	4.6746	0.0439	53 23 53.2	9.138	0.611	77.0	455 456 596 600	53 759
1810	9.0	11 35.69	4.7711	0.0473	54 59 8.7	9.136	0.624	78.9	718 721	54 762
1811	9.2	4 11 39.89	+4.6740	+0.0439	+ 53 22 54.0	+9.130	−0.611	77.9	596 600	53 760
1812	8.5	12 0.92	4.7093	0.0450	53 57 27.4	9.103	0.616	79.6	627 628 629 765	53 761
1813	9.2	12 6.90	4.7250	0.0455	54 12 36.5	9.095	0.618	75.0	366 367	54 764
1814	9.7	12 27.43	4.5268	0.0386	50 39 16.4	9.069	0.593	71.0	13 18 21	50 979
1815	8.6	12 34.83	4.6572	0.0429	53 2 13.4	9.059	0.610	74.0	150 152 455 456	52 813
1816	8.4	4 12 36.67	+4.5305	+0.0386	+ 50 42 59.0	+9.057	−0.593	74.4	212 371 372	50 980
1817	9.2	12 51.66	4.5732	0.0400	51 30 36.7	9.037	0.599	72.4	23 25 373	} 51 911
1818	9.4	12 52.56	4.5736	0.0400	51 30 56.8	9.036	0.599	71.0	23 25	
1819	8.6	12 56.68	4.5625	0.0396	51 18 20.7	9.031	0.598	74.9	5 obs. [3]	51 912
1820	8.1	13 0.04	4.5810	0.0402	51 38 41.6	9.026	0.600	77.1	521 522 523	51 913
1821	8.5[4]	4 13 52.97	+4.5227	+0.0380	+ 50 29 18.8	+8.957	−0.594	71.4 71.7	6 obs. [5]	50 985
1822	7.1	14 17.62	4.6727	0.0427	53 12 5.3	8.925	0.614	75.1	368 369 371 372	53 764
1823	6.7	14 38.00	4.5862	0.0396	51 38 30.7	8.898	0.603	72.1	7 obs. [6]	51 919
1824	7.3	15 3.74	4.5298	0.0377	50 33 9.2	8.865	0.596	72.0	13 15 212 213	50 986
1825	8.2	15 23.32	4.5307	0.0376	50 33 8.2	8.839	0.597	71.0	18 21	50 987
1826	8.9	4 15 35.52	+4.7571	+0.0450	+ 54 31 35.5	+8.823	−0.627	75.6	373 374 455 456	54 766
1827	9.0	15 37.40	4.6727	0.0421	53 7 21.0	8.821	0.616	75.1	371 372	53 765
1828	8.7	16 7.87	4.6963	0.0427	53 29 39.1	8.781	0.619	77.6	523 596 600	53 766
1829	8.8	16 19.39	4.5596	0.0381	51 2 44.4	8.766	0.602	71.6	13 15 212	50 989
1830	9.0	16 23.76	4.5772	0.0387	51 22 14.3	8.760	0.604	71.0	23 25	51 923
1831	8.5	4 16 28.38	+4.6867	+0.0422	+ 53 18 45.7	+8.754	−0.619	82.0	600 765 767	53 768
1832	8.9	16 28.54	4.7543	0.0445	54 25 50.6	8.754	0.627	76.1	455 456	54 768
1833	8.7	16 34.67	4.5172	0.0367	50 13 8.8	8.746	0.596	71.0	18 21	50 990
1834	8.8	16 41.22	4.6809	0.0419	53 12 4.4	8.737	0.618	75.1	371 372	53 769
1835	7.8	16 44.06	4.6248	0.0401	52 13 5.5	8.733	0.611	72.0	150 152	52 821
*1836	8.5	4 17 8.88	+4.6460	+0.0406	+ 52 34 11.6	+8.701	−0.614	74.8	276 373 374	52 823
1837	6.7	17 22.82	4.5990	0.0390	51 42 52.9	8.682	0.608	71.0	23 25	51 924
1838	7.3	17 27.68	4.5564	0.0376	50 55 6.7	8.676	0.603	70.9	13 15	50 993
1839	8.9	17 30.66	4.5300	0.0368	50 24 38.4	8.672	0.599	75.5 74.1	7 obs. [7]	50 994
1840	9.4	17 43.95	4.6818	0.0415	53 9 17.7	8.655	0.620	76.1	455 456	53 770
1841	9.1	4 17 54.80	+4.6154	+0.0393	+ 51 58 46.9	+8.640	−0.611	72.1	156 157	51 926
1842	9.2	17 56.68	4.6147	0.0393	51 58 —	8.638	0.611	72.1	156α 157α	[51 927]
1843	8.8	17 57.72	4.5324	0.0367	50 25 53.6	8.637	0.600	80.8	18 765 767 771	50 995
1844	8.3	18 5.25	4.5609	0.0375	50 58 0.6	8.627	0.604	77.2 78.1	6 obs. [8]	50 996
1845	8.6	18 6.78	4.7515	0.0436	54 17 34.0	8.625	0.629	77.1	522 523	54 771
1846	8.4	4 18 38.28	+4.6848	+0.0412	+ 53 9 22.2	+8.583	−0.621	76.1	455 456	53 771
1847	8.9	18 42.35	4.6067	0.0387	51 46 39.0	8.578	0.611	71.0	23 25	51 929
1848	9.1	18 44.40	4.6399	0.0398	52 22 15.0	8.575	0.615	75.1	371 372 373 374	52 827
*1849	8.8	18 46.12	4.6397	0.0397	52 21 51.5	8.573	0.615	75.1	371 372 373 374	52 828
1850	8.6	18 47.57	4.7134	0.0421	53 37 40.8	8.571	0.625	84.6	767 772 827 828	53 772

[1] Z. 632 633 634 723 916α [2] Z. 632 633 634 725 727 916 [3] Z. 156 157 276 622 623

[4] Dupl. α Z. 213 med. 52ˢ.77 (73.1), magns 9.4 8.9 [5] Z. 13 15 18 21 212 213δ

[6] Z. 23 25 150 152 156 157 276 [7] Z. 21 212 369 370 371 372 771α [8] Z. 209 210α 276 370 771 772

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1851	8.0	$4^h\ 18^m\ 48^s.44$	+4ˢ.5334	+0ˢ.0364	+ 50°24′ 4″.5	+8″.570	−0″.601	70.9	13 15	50° 997
1852	7.4	18 53.89	4.7808	0.0442	54 43 4.6	8.562	0.634	77.7	6 obs. [1]	54 773
1853	9.0	18 55.57	4.5649	0.0373	50 59 37.7	8.560	0.606	71.7	18 21 212	50 999
1854	7.7	19 11.53	4.6265	0.0391	52 6 23.2	8.539	0.614	74.8	276 369 370	52 830
1855	9.4	19 30.76	4.6340	0.0392	52 13 20.8	8.514	0.616	74.1	371 372	52 832
1856	8.0	4 20 2.05	+4.5333	+0.0360	+ 50 19 43.7	+8.473	−0.603	72.0	13 15 209 210	50 1002
1857	9.0	20 7.56	4.7157	0.0416	53 35 33.3	8.465	0.627	75.6	373 374 455 456	53 773
1858	9.0	20 21.32	4.7072	0.0412	53 26 17.7	8.447	0.626	77.1	522 523	53 774
1859	9.1	20 33.81	4.6020	0.0378	51 35 9.0	8.431	0.613	72.1	156 157	51 935
1860	8.8	20 45.45	4.5889	0.0373	51 20 4.8	8.415	0.611	73.8	212 276 277	51 938
1861	9.2	4 20 52.64	+4.5161	+0.0351	+ 49 56 49.2	+8.406	−0.602	73.0	209 210	49 1190
1862	8.0	20 59.73	4.6279	0.0384	52 1 43.7	8.396	0.616	75.1	369 370 371 372	51 941
1863	8.9	21 4.38	4.7298	0.0416	53 46 25.5	8.390	0.630	75.1	373 374	53 776
1864	8.5	21 7.22	4.5170	0.0350	49 56 57.8	8.386	0.602	70.9	13 15	49 1191
1865	8.8	21 16.14	4.7930	0.0435	54 46 45.0	8.375	0.639	76.1	455 456	54 774
1866	9.0	4 21 49.06	+4.7180	+0.0409	+ 53 32 15.0	+8.331	−0.630	76.3	5 obs. [2]	53 778
1867	7.4	22 7.25	4.7251	0.0410	53 38 18.2	8.307	0.631	75.1	371 372	
1868	**6.3**	**22 8.19**	**4.7250**	**0.0410**	**53 38 11.4**	**8.305**	**0.631**		**Fund. Cat.**	53 779
1869	9.1	22 16.86	4.5842	0.0366	51 9 49.8	8.294	0.612	82.3	5 obs. [3]	51 943
1870	8.9	22 31.93	4.6270	0.0388	51 55 39.0	8.274	0.618	73.0	209 210	51 944
1871	9.5	4 22 32.64	+4.7460	+0.0414	+ 53 57 33.3	+8.273	−0.634	77.0	374 521 596 600	53 780
1872	9.1	22 33.27	4.6269	0.0388	51 55 31.9	8.272	0.618	73.0	209α 210	51 944
1873	8.9	22 56.74	4.6633	0.0387	52 32 45.9	8.241	0.624	74.7 74.6	5 obs. [4]	52 841
1874	7.6	23 9.44	4.8263	0.0437	55 11 39.2	8.224	0.645	84.6	771 772 827 830	55 895
1875	7.2	23 30.86	4.6644	0.0385	52 32 4.5	8.196	0.624	75.1	5 obs. [5]	52 843
1876	9.0	4 23 34.94	+4.6642	+0.0385	+ 52 31 33.8	+8.190	−0.624	81.1	373 767 768	52 844
1877	8.1	23 42.20	4.5678	0.0356	50 46 44.2	8.181	0.612	70.9	13 15	50 1013
1878	9.0	23 54.09	4.6558	0.0381	52 21 46.0	8.165	0.624	74.6	277 372	52 846
1879	9.4	24 12.30	4.5732	0.0355	50 51 8.9	8.140	0.613	73.1	209 210	50 1015
1880	8.6	24 15.55	4.6793	0.0386	52 45 3.0	8.136	0.620	75.1	373 374	52 848
1881	9.0	4 24 20.25	+4.6603	+0.0380	+ 52 25 8.0	+8.130	−0.625	74.9	5 obs. [6]	52 849
1882	9.6	24 31.12	4.6632	0.0381	52 27 32.2	8.115	0.625	84.1	767 768	— —
1883	7.6	25 5.38	4.5696	0.0351	50 44 17.4	8.070	0.614	72.0	6 obs. [7]	50 1016
1884	9.0	25 25.00	4.7625	0.0407	54 4 28.4	8.043	0.640	76.3	5 obs. [8]	54 780
1885	8.4	25 51.25	4 8331	0.0427	55 9 28.9	8.008	0.650	85.1	830 831	55 900
1886	8.4	4 26 14.21	+4.8087	+0.0417	+ 54 45 46.8	+7.978	−0.647	75.1	373 374	54 782
1887	8.5	26 16.57	4.5522	0.0342	50 20 46.9	7.974	0.613	72.6	5 obs. [9]	50 1019
1888	9.0	26 19.23	4.6775	0.0377	52 36 41.9	7.971	0.629	73.1	156 157 276 277	52 854
1889	8.0	26 28.23	4.6783	0.0378	52 36 59.6	7.959	0.630	78.6	156 157 832 833	52 855
1890	8.4	26 32.59	4.6570	0.0370	52 14 37.8	7.953	0.627	73.0	209 210	52 856
1891	9.0	4 27 2.68	+4.7149	+0.0385	+ 53 12 31.4	+7.913	−0.635	75.1	371 372	53 788
1892	8.7	27 15.56	4.6468	0.0364	52 1 36.2	7.895	0.626	73.6	152 153 369 370	51 956
1893	8.5	27 48.51	4.6843	0.0373	52 39 5.5	7.851	0.632	73.0	209 210	52 857
1894	8.8	27 51.89	4.7172	0.0382	53 12 15.6	7.847	0.636	78.1	624 625	53 790
1895	8.3	27 52.79	4.7838	0.0402	54 17 19.6	7.846	0.645	75.1	373 374	54 785
1896	9.0	4 28 11.10	+4.7521	+0.0391	+ 53 45 49.6	+7.821	−0.642	75.1	371 372	53 791
1897	9.2	28 19.72	4.8086	0.0408	54 39 22.4	7.809	0.650	78.5	631 634 718 721	54 787
1898	8.5	28 23.94	4.7382	0.0386	53 31 36.7	7.804	0.640	79.1	722 725 727	53 793
1899	8.8	28 33.59	4.6758	0.0368	52 27 57.9	7.791	0.632	78.1	626 627	52 859
1900	8.8	28 33.96	4.6928	0.0372	52 45 30.4	7.790	0.634	75.1	369 370	52 860

[1] Z. 522 523 596 600 624 625 [2] Z. 373 374 521 522 523 [3] Z. 370 767 768 770 771
[4] Z. 276 277 369 370 373α [5] Z. 369 370 371 372 374 [6] Z. 276 369 370 371 372
[7] Z. 13 15 18 21 276 277 [8] Z. 373 374 521 522 523 [9] Z. 13 18 21 369 370

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1901	7.5	$4^h\,28^m\,44^s.18$	+4ˢ.6782	+0ˢ.0368	+ 52°29′ 58″.4	+7″.776	−0″.632	78.1	626 627	52° 861
1902	9.0	29 0.14	4.6367	0.0355	51 45 29.4	7.755	0.627	73.6	152 153 373 374	51 958
1903	8.5	29 38.90	4.6183	0.0347	51 23 44.9	7.703	0.625	72.1	156 157	51 960
1904	5.8	30 4.10	4.7250	0.0375	53 13 26.1	7.669	0.640	78.1	624 625	53 794
1905	4.8	30 4.42	4.7014	0.0368	52 49 40.2	7.668	0.637	73.0	209 210	52 865
*1906	8.0	4 30 5.87	+4.5955	+0.0339	+ 50 57 27.1	+7.666	−0.623	71.0	18 21	50 1027
1907	8.3	30 5.98	4.5955	0.0339	50 57 24.8	7.666	0.623	70.9	13 15	50 1026
1908	8.0	30 8.70	4.6863	0.0364	52 34 2.8	7.663	0.635	75.1	369 370	52 866
1909	7.8	30 18.60	4.6675	0.0358	52 14 4.8	7.649	0.632	78.1	626 627	52 867
1910	8.8	30 30.68	4.7260	0.0373	53 13 6.4	7.633	0.640	78.1	624 625	53 796
1911	8.0	4 30 38.37	+4.5915	+0.0336	+ 50 51 23.3	+7.623	−0.623	75.1	371 372	50 1028
1912	9.5	30 53.62	4.6253	0.0344	51 27 32.0	7.602	0.627	75.1	373 374	51 962
1913	8.4	30 57.31	4.6770	0.0358	52 22 0.8	7.597	0.634	78.1	626 627	52 868
1914	9.2	31 34.27	4.5988	0.0334	50 56 35.2	7.547	0.624	75.1	370 372	[50 1030]
1915	8.5	31 45.02	4.8045	0.0391	54 25 27.1	7.533	0.653	77.4	455 612 621	54 795
1916	9.0	4 32 3.43	+4.5484	+0.0319	+ 49 58 30.9	+7.508	−0.618	84.1	767 768 771	49 1224
1917	7.5	32 5.27	4.7381	0.0370	53 20 30.1	7.505	0.644	75.1	373 374	53 799
1918	9.4	32 11.58	4.7868	0.0383	54 7 25.2	7.497	0.650	77.1	521 523	54 796
1919	9.2	32 40.04	4.5958	0.0329	50 50 4.4	7.458	0.625	75.1	369 370 371 372	50 1034
1920	8.6	33 5.37	4.7142	0.0359	52 53 49.6	7.424	0.642	72.1	152 153	52 872
1921	9.0	4 33 26.02	+4.7516	+0.0368	+ 53 29 57.3	+7.396	−0.647	81.1	6 obs. [1]	53 802
1922	9.0	33 27.40	4.7718	0.0374	53 49 31.0	7.394	0.650	77.7	455 612 621	53 801
1923	8.4	33 40.84	4.5824	0.0322	50 32 14.8	7.376	0.625	70.9	13 15	50 1038
1924	8.6	33 44.03	4.5834	0.0322	50 33 9.1	7.372	0.625	77.6	18 21 770 771	50 1039
1925	9.2	33 46.30	4.8498	0.0394	55 1 33.8	7.368	0.661	82.4	523 830 831	54 799
1926	8.6	4 34 11.57	+4.7087	+0.0353	+ 52 45 4.6	+7.334	−0.642	73.6	156 157 369 370	52 873
1927	8.6	34 16.50	4.8040	0.0379	54 17 50.6	7.328	0.655	75.1	373 374	54 803
1928	9.0	34 26.15	4.7545	0.0364	53 29 56.0	7.314	0.649	78.1	622 623	— —
1929	8.7	34 33.09	4.7513	0.0363	53 26 31.6	7.305	0.648	84.1	767 768 770 771	53 806
1930	8.5	34 57.08	4.5640	0.0312	50 7 47.5	7.272	0.623	70.9	13 15	50 1042
1931	8.6	4 35 7.39	+4.5732	+0.0314	+ 50 17 45.2	+7.258	−0.625	71.0	18 21	50 1043
1932	7.8	35 8.62	4.6734	0.0339	52 6 5.9	7.257	0.638	72.1	152 153	52 876
1933	8.6	35 14.13	4.7406	0.0357	53 14 4.2	7.249	0.648	75.1	371 372	53 807
1934	8.9	35 30.41	4.7519	0.0359	53 24 25.8	7.227	0.649	77.3	5 obs. [2]	53 808
1935	9.1	35 47.16	4.8566	0.0387	55 2 13.1	7.204	0.664	75.1	373 374	54 806
1936	9.1	4 35 54.75	+4.8499	+0.0384	+ 54 55 49.8	+7.194	−0.663	82.7	5 obs. [3]	54 807
1937	8.1	36 4.46	4.7016	0.0343	52 32 34.7	7.181	0.643	75.1	369 370 371 372	52 877
1938	9.2	36 15.02	4.8580	0.0385	55 2 15.4	7.166	0.665	78.0	612 621	54 808
1939	8.7	36 18.70	4.8278	0.0377	54 34 26.7	7.161	0.661	78.1	624 625	54 809
1940	8.8	36 21.10	4.8478	0.0382	54 52 44.3	7.158	0.663	77.9	6 obs. [4]	54 810
1941	8.7	4 36 29.66	+4.8461	+0.0380	+ 54 50 43.5	+7.146	−0.663	77.7	5 obs. [5]	54 811
1942	9.1	36 46.01	4.8575	0.0382	55 0 21.2	7.124	0.665	78.2	5 obs. [6]	54 812
1943	8.0	36 48.23	4.6081	0.0316	50 51 48.0	7.121	0.631	72.0	13 15 212 214	50 1051
1944	8.5	36 55.70	4.6206	0.0319	51 5 3.5	7.111	0.633	74.1	154 369 370	51 972
1945	8.4	37 3.70	4.6152	0.0317	50 58 44.9	7.100	0.632	71.0	18 21	50 1054
1946	8.0	4 37 7.63	+4.5583	+0.0303	+ 49 55 12.6	+7.095	−0.625	84.3	5 obs. [7]	49 1239
1947	8.6	37 10.15	4.6611	0.0328	51 47 36.9	7.091	0.639	74.7	5 obs. [8]	51 973
1948	9.5	37 20.42	4.6553	0.0326	51 41 4.0	7.077	0.638	85.1	838 840 841	51 974
1949	8.7	37 33.56	4.6406	0.0322	51 24 50.2	7.059	0.636	74.1	276 277	51 976
1950	9.0	37 42.59	4.8535	0.0377	54 54 14.6	7.047	0.666	76.1	455 456	54 817

[1] Z. 373 374 767 768 770 771 [2] Z. 455 516 517 612 621 [3] Z. 523 767 768 770 771
[4] Z. 521 626 627 630 631 632 [5] Z. 455 626 627 630 631 [6] Z. 523 633 634 718 721
[7] Z. 767 768 770 771 827 [8] Z. 152 153 156 157 834

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
1951	7.2	4h 37m 54s.49	+4s.7383	+0s.0345	+ 53° 4′ 25″.7	+7″.031	−0″.650	77.7	5 obs. [1]	53° 813
1952	7.9	38 1.25	4.5828	0.0305	50 20 19.2	7.022	0.629	71.6	13 15 214	50 1055
1953	8.7	38 1.31	4.8336	0.0370	54 35 13.2	7.021	0.663	79.3	5 obs. [2]	54 818
1954	7.6	38 8.32	4.7280	0.0341	52 53 33.1	7.012	0.649	79.6	369 370 767 768	52 880
1955	9.2	38 10.90	4.6180	0.0313	50 58 40.0	7.007	0.634	71.0	18 21	50 1058
1956	8.4	4 38 16.31	+4.6978	+0.0333	+ 52 22 41.4	+7.001	−0.645	77.1	521 523	52 881
*1957	8.8	38 24.44	4.8353	0.0369	54 35 49.0	6.990	0.673	84.1	770 771	54 819
*1958	8.5	38 27.57	4.5918	0.0306	50 29 13.2	6.985	0.631	75.6	212 622	50 1059
1959	9.1	38 43.65	4.6392	0.0317	51 20 6.1	6.964	0.637	73.1	154 155 276 277	51 977
1960	8.5	39 0.62	4.5885	0.0303	50 24 0.2	6.940	0.631	70.9	13 15	50 1061
1961	9.4	4 39 2.67	+4.6059	+0.0307	+ 50 43 7.6	+6.937	−0.633	73.6	156 157 369 370	50 1062
1962	9.3	39 22.53	4.7891	0.0352	53 49 58.0[8]	6.910	0.658	85.1	830α 838 840 841α	[53 816]
1963	8.3	39 29.91	4.7781	0.0348	53 39 2.8	6.900	0.657	76.1	455 456	53 817
1964	8.9	39 32.07	4.8623	0.0371	54 57 28.9	6.897	0.669	78.0	612 621	54 822
1965	8.3	39 36.71	4.7471	0.0340	53 8 35.1	6.891	0.653	77.1	516 517 521 523	53 818
1966	9.4	4 39 46.31	+4.7904	+0.0350	+ 53 50 5.0	+6.878	−0.659	84.7 84.6	6 obs. [4]	53 819
1967	8.8	39 53.82	4.8548	0.0367	54 49 46.8	6.867	0.668	84.1	767 768	54 823
1968	8.9	40 13.24	4.5804	0.0296	50 11 40.0	6.841	0.631	73.0	6 obs. [5]	50 1067
1969	9.0	40 34.03	4.8288	0.0357	54 24 10.6	6.812	0.665	77.1	459 460 612 621	54 826
1970	8.2	40 38.87	4.6780	0.0318	51 55 53.8	6.806	0.645	71.0	24 26	51 978
1971	9.0	4 40 50.35	+4.7432	+0.0334	+ 53 1 29.7	+6.790	−0.654	72.1	154 155	52 884
1972	8.8	41 1.34	4.8162	0.0351	54 11 18.9	6.775	0.664	78.1	624 625	54 827
1973	8.8	41 3.72	4.7746	0.0341	53 31 35.5	6.772	0.658	76.1	455 456	53 821
1974	7.7	41 4.45	4.5820	0.0294	50 11 16.1	6.771	0.632	73.7	13 369 370	50 1070
1975	9.2	41 17.50	4.8801	0.0367	55 8 58.9	6.753	0.673	84.1	767 768 770 771	55 937
1976	8.9	4 41 18.04	+4.6846	+0.0317	+ 52 1 2.4	+6.752	−0.646	71.1	27 28	51 980
1977	8.6	41 18.70	4.6940	0.0319	52 10 45.4	6.751	0.647	74.1	276 277	52 885
1978	9.0	41 24.00	4.7095	0.0323	52 26 17.9	6.744	0.650	77.1	516 517 521 523	52 886
*1979	8.4	41 26.67	4.8547	0.0359	54 45 43.8	6.740	0.670	78.0	612 621	54 828
1980	9.4	41 38.29	4.5875	0.0293	50 15 53.6	6.724	0.633	71.0	18 21	50 1072
1981	7.7	4 41 47.67	+4.8507	+0.0357	+ 54 41 10.2	+6.711	−0.669	76.7	5 obs. [6]	54 829
1982	9.2	42 9.60	4.7380	0.0327	52 53 3.4	6.681	0.654	78.1	624 625	52 888
1983	8.9	42 12.24	4.5913	0.0292	50 18 40.3	6.678	0.634	73.1	6 obs. [7]	50 1074
1984	8.3	42 20.89	4.7181	0.0321	52 32 34.8	6.666	0.652	74.1	276 277	52 889
1985	9.2	42 32.45	4.5729	0.0286	49 57 9.8	6.650	0.632	76.1	459 460	49 1260
1986	8.8	4 42 34.93	+4.6081	+0.0294	+ 50 36 11.8	+6.646	−0.637	76.5	5 obs. [8]	50 1075
1987	8.4	42 39.06	4.6399	0.0301	51 10 33.8	6.640	0.641	85.1	831	51 983
*1988	8.7	42 39.12	4.6400	0.0301	51 10 41.2	6.640	0.641	74.1	6 obs. [9]	51 984
1989	8.9	42 39.69	4.6406	0.0301	51 11 17.1	6.640	0.641	76.2	6 obs. [10]	51 985
1990	9.4	42 40.08	4.6737	0.0308	51 46 15.6	6.639	0.646	84.1	767 768	51 982
1991	9.3	4 42 47.60	+4.6385	+0.0300	+ 51 8 41.8	+6.629	−0.641	78.1	622	51 986
1992	8.2	42 47.83	4.6069	0.0293	50 34 25.4	6.628	0.637	75.1	370	50 1076
1993	8.0	42 50.13	4.8630	0.0355	54 49 45.9	6.625	0.672	76.6	455 456 516 517	54 831
1994	8.9	42 52.03	4.8269	0.0346	54 16 35.7	6.623	0.667	77.1	518 519 520	54 832
1995	7.7	43 3.24	4.6496	0.0302	51 19 47.9	6.607	0.643	81.3	5 obs. [11]	51 987
1996	6.4	4 43 17.04	+4.7255	+0.0319	+ 52 37 38.2	+6.588	−0.654	74.1	276 277	52 891
1997	8.4	44 3.96	4.6003	0.0287	50 23 49.4	6.524	0.637	71.0	13 15 18 21	50 1079
1998	8.5	44 17.17	4.6010	0.0286	50 24 6.5	6.505	0.637	71.0	13 15 18 21	50 1082
1999	8.8	44 34.01	4.7046	0.0309	52 13 21.4	6.482	0.652	75.3	5 obs. [12]	52 893
2000	6.4	44 50.18	4.8832	0.0351	55 2 59.5	6.460	0.677	85.1	831 832	55 941

[1] Z. 516 517 630 631 632
[2] Z. 612 621 624 625 771
[8] [50′ 52″.0] 49′ 56″.5 49′ 59″.5 [50′ 5″.5]
[4] Z. 622 771 838α 839α 840 841
[5] Z. 13 15 212 214 369 370
[6] Z. 455 456 518 519 520
[7] Z. 13 156 157 212 369 370
[8] Z. 18 21 159 770 771
[9] Z. 28 152 153 154 155 827
[10] Z. 28 152 153 154 827 831
[11] Z. 521 523 767 770 771
[12] Z. 276 277 458 459 460

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2001	9.0	$4^h\,44^m\,57^s.55$	+4ˢ.6486	+0ˢ.0294	+ 51°13′56″.3	+6″.450	−0″.645	76.1	6 obs. [1]	51° 991
2002	8.6	45 12.98	4.7212	0.0310	52 28 34.2	6.428	0.655	75.1	369 370	52 895
2003	8.6	45 21.04	4.7085	0.0306	52 15 21.2	6.417	0.653	75.5	7 obs. [2]	52 897
2004	9.0	45 21.66	4.7431	0.0315	52 50 2.2	6.416	0.658	85.1	830 833	52 896
2005	7.4	45 25.46	4.6590	0.0294	51 23 50.0	6.411	0.646	74.7	27 28 518 519 520	51 992
2006	9.3	4 45 42.71	+4.6457	+0.0290	+ 51 9 1.0	+6.387	−0.645	72.1	154 155 158	51 995
2007	8.8	45 43.57	4.6003	0.0280	50 19 44.4	6.386	0.638	71.0	13 15 18 21	50 1087
2008	8.0	45 50.72	4.6731	0.0296	51 37 40.8	6.376	0.649	72.1	156 157	51 996
2009	8.9	46 10.15	4.6442	0.0288	51 6 20.9	6.349	0.645	74.1	159 516 517 521 523	51 997
2010	6.0	46 13.04	4.7348	0.0309	52 39 47.9	6.345	0.658	74.9	276 369 370 371 372	52 898
2011	8.6	4 46 28.14	+4.6900	+0.0298	+ 51 53 38.2	+6.324	−0.652	71.6	27 28 152 153	51 999
2012	9.0	46 28.30	4.6700	0.0293	51 32 50.6	6.324	0.649	76.3	27 28	51 1000
2013	9.3	46 28.54	4.6900	0.0298	51 53 37.8	6.324	0.652	71.1	373 374 518 519 520	51 999
2014	5.5	47 16.28	4.7919	0.0318	53 32 57.1	6.258	0.666	75.7	371 372 458 459 460	53 829
2015	9.1	47 26.16	4.6397	0.0282	50 58 23.9	6.244	0.646	73.4	6 obs. [3]	50 1091
2016	9.2	4 48 3.50	+4.8037	+0.0317	+ 53 42 20.1	+6.192	−0.669	76.3	373 374 518 519 520	53 831
2017	8.9	48 5.87	4.6950	0.0292	51 54 58.7	6.189	0.654	73.1	6 obs. [4]	51 1001
2018	8.7	48 6.47	4.6304	0.0277	50 46 50.2	6.188	0.645	71.7	18 21 156 157 158	50 1093
2019	9.0	48 9.84	4.5891	0.0269	50 1 18.4	6.184	0.639	72.1	154 155	49 1277
2020	9.5	48 26.13	4.7741	0.0308	53 13 7.1	6.161	0.665	75.1	369 370 371 372	53 833
2021	8.8	4 49 15.96	+4.6977	+0.0288	+ 51 54 57.8	+6.092	−0.655	73.1	212 214	— —
2022	8.0	49 15.98	4.6877	0.0286	51 44 43.5	6.092	0.654	78.9	24 26 767 770 771	51 1005
2023	8.2	49 25.43	4.7206	0.0292	52 17 55.5	6.078	0.659	74.5	152 153 458 459 460	52 905
2024	6.5	49 49.24	4.7615	0.0300	52 57 38.1	6.045	0.665	80.1	276 277 767 770 771	52 906
2025	7.8	49 54.55	4.7800	0.0303	53 15 27.6	6.038	0.667	75.1	369 370 371 372	53 836
2026	8.8	4 50 38.14	+4.5951	+0.0261	+ 50 2 11.4	+5.978	−0.642	72 1	154 155	50 1100
2027	8.0	50 41.78	4.8544	0.0317	54 23 31.4	5.972	0.678	75.1	373 374	54 845
2028	8.9	50 47.54	4.8695	0.0320	54 37 2.3	5.964	0.681	79.4	7 obs. [5]	54 846
2029	9.2	51 0.59	4.7907	0.0301	53 23 13.3	5.946	0.670	75.1	369 370 371 372	53 838
2030	8.5	51 4.56	4.6665	0.0274	51 18 22.8	5.940	0.652	71.9	24 26 27 212 214	51 1008
2031	9.2	4 51 6.84	+4.6471	+0.0270	+ 50 57 46.1	+5.937	−0.650	77.5	7 obs. [6]	50 1101
2032	9.0	51 40.48	4.8595	0.0313	54 26 0.2	5.890	0.680	75.1	373 374	54 848
2033	8.6	51 43.04	4.5990	0.0258	50 4 4.7	5.887	0.644	71.5	18 21 158 159	} 50 1103
2034	9.0	51 43.46	4.5990	0.0258	50 4 3.1	5.886	0.644	72.1	158 159	
2035	8.7	52 0.32	4.6257	0.0262	50 32 38.2	5.863	0.648	73.1	156 157 276 277	50 1105
2036	8.8	4 52 12.69	+4.6414	+0.0264	+ 50 49 13.2	+5.846	−0.650	70.9	13 15	50 1106
2037	8.9	52 17.99	4.8448	0.0308	54 11 12.8	5.838	0.678	76.8	7 obs. [7]	54 850
2038	8.6[8]	52 20.10	4.8751	0.0314	54 38 41.9	5.835	0.683	85.1	831 833	54 851
2039	8.6	52 28.58	4.6006	0.0255	50 4 5.1	5.823	0.644	84.1	767 770 771	50 1107
2040	8.4	52 30.45	4.6797	0.0271	51 29 0.8	5.821	0.656	72.4	27 212 214	51 1009
2041	8.0	4 52 44.32	+4.8063	+0.0297	+ 53 34 19.4	+5.801	−0.673	75.1	371 372	53 842
2042	9.0	52 44.47	4.6136	0.0257	50 17 49.0	5.801	0.646	81.1	218 834 836	50 1108
2043	9.3	52 54.83	4.7026	0.0274	51 51 47.8	5.787	0.659	73.4	154 276 277	} 51 1010
2044	9.2	52 59.78	4.7031	0.0274	51 52 6.9	5.780	0.659	74.1	276 277	
2045	8.9	53 2.67	4.6165	0.0256	50 20 19.6	5.776	0.647	74.1	216 218 369 370	50 1109
2046	7.8	4 53 4.62	+4.8828	+0.0312	+ 54 43 58.5	+5.773	−0.684	75.1	373 374	54 852
2047	8.5	53 9.15	4.6212	0.0257	50 25 13.2	5.767	0.648	70.9	13 15	50 1110
2048	9.2	53 25.86	4.6570	0.0263	51 3 3.2	5.743	0.653	75.1	371 372	51 1012
2049	9.0	53 28.53	4.7927	0.0291	53 19 47.3	5.740	0.672	80.6	455 456 827 836	53 843
2050	9.6	53 32.96	4.6840	0.0268	51 31 9.8	5.733	0.657	72.4 73.1	27α 212 214	51 1013

[1] Z. 24 26 212 214 770 771 [2] Z. 276 277 455 456 458 459 460 [3] Z. 13 15 276 277 369 370
[4] Z. 24 26 27 28 516 517 [5] Z. 516 517 518 519 520 830 831 [6] Z. 13 15 276 277 767 770 771
[7] Z. 458 459 516 517 518 519 520 [8] Dupl. maj. Z. 523 med.: 20ˢ.25 42″.6 (77.1) magns 9.0 9.4

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2051	9.1	$4^h\,53^m\,36^s.00$	+4ˢ.8732	+0ˢ.0317	+ 54°34′ 20″.1	+5″.729	−0″.684	76.5	5 obs. [1]	54° 854
2052	8.9	53 37.19	4.6456	0.0260	50 50 31.4	5.728	0.652	71.7	18 158 159	50 1111
2053	9.1	53 42.56	4.7936	0.0290	53 20 7.6	5.720	0.672	80.6	455 836	53 844
2054	8.7	53 43.25	4.6239	0.0255	50 26 54.6	5.719	0.649	72.1	156 157	50 1112
2055	8.6	53 50.25	4.7765	0.0286	53 3 23.7	5.709	0.670	75.1	369 370	53 845
2056	7.9	4 53 56.08	+4.8814	+0.0308	+ 54 40 57.7	+5.701	−0.685	80.5	5 obs. [2]	54 856
2057	8.6	54 26.68	4.8910	0.0307	54 48 30.7	5.658	0.686	76.6	458 459 516 517	54 857
2058	8.4	54 35.99	4.6189	0.0251	50 19 33.9	5.645	0.649	70.9	13 15	50 1115
2059	9.1	54 36.16	4.6988	0.0267	51 44 14.1	5.645	0.660	74.1	152 276 371 372	[51 1015]
2060	8.7	55 2.76	4.6989	0.0265	51 43 22.8	5.608	0.660	77.0	7 obs. [3]	51 1016
2061	8.2	4 55 4.98	+4.6111	+0.0248	+ 50 9 57.8	+5.605	−0.648	71.0	18 21	50 1116
2062	8.5	55 6.34	4.7012	0.0265	51 45 34.7	5.603	0.660	84.1	767 770 771	[51 1017]
*2063	9.2	55 21.08	4.7887	0.0282	53 11 57.5	5.582	0.673	78.0	612	53 848
2064	9.2	55 25.69	4.7890	0.0282	53 12 3.0	5.576	0.673	81.0	455 621 834 838	53 849
2065	9.4	55 33.50	4.6494	0.0253	50 50 23.0	5.565	0.654	73.1	216 218	50 1117
2066	9.6	4 55 46.47	+4.7023	+0.0262	+ 51 45 20.5	+5.547	−0.661	72.6	154 212	51 1019
2067	8.9	55 54.39	4.5968	0.0242	49 52 29.5	5.536	0.646	73.1	5 obs. [4]	49 1298
2068	8.3	55 57.07	4.6626	0.0254	51 3 34.4	5.532	0.656	73.8	27 373 374	51 1020
2069	8.6	56 5.62	4.9041	0.0302	54 56 42.7	5.520	0.690	76.5	5 obs. [5]	54 858
2070	7.2	56 13.03	4.8565	0.0292	54 13 43.4	5.510	0.683	78.1	521 523 723 727	54 859
2071	8.2	4 56 14.28	+4.9204	+0.0305	+ 55 10 41.0	+5.508	−0.692	85.0	827 831	55 956
2072	7.6	56 18.49	4.5974	0.0240	49 52 11.1	5.502	0.647	74.1	216 218 371 372	49 1300
2073	8.6	56 27.06 [6]	4.7480	0.0269	52 29 56.3	5.490	0.668	78.6 78.8	637 725 726δ	52 915
2074	8.9	56 27.83	4.8516	0.0290	54 8 44.5	5.489	0.683	81.8	632 727 833 841	54 861
2075	8.8	56 29.53	4.7687	0.0273	52 50 12.5	5.486	0.671	80.1 79.3	7 obs. [7]	52 914
2076	9.2	4 56 40.92	+4.7051	+0.0260	+ 51 46 17.9	+5.470	−0.662	72.6	152 214	[51 1022]
2077	8.5	56 40.96	4.7996	0.0278	53 19 41.6	5.470	0.676	79.4 80.8	455 521 767 841δ	53 850
2078	8.3	56 44.08	4.7664	0.0271	52 47 29.2	5.466	0.671	79.1	728	52 917
2079	8.8	56 47.79	4.8120	0.0280	53 31 12.0	5.461	0.677	78.1	635 636	53 851
2080	9.2	56 53.44	4.6928	0.0256	51 33 13.2	5.453	0.661	80.7	5 obs. [8]	51 1023
2081	5.6	4 56 53.51	+4.6856	+0.0255	+ 51 25 44.4	+5.453	−0.660	75.8	27 626 627	51 1024
2082	9.3	56 56.24	4.7226	0.0262	52 3 33.7	5.449	0.665	78.6	5 obs. [9]	52 918
2083	9.2	56 56.51	4.7192	0.0261	52 0 4.3	5.448	0.665	79.7 77.0	373 718 840α	51 1025
2084	8.2	57 14.07	4.6923	0.0255	51 31 57.9	5.424	0.661	76.4	458 459 460 523	51 1027
2085	8.2	57 19.71	4.6276	0.0242	50 23 17.6	5.416	0.652	70.9	13 15	50 1121
2086	8.6	4 57 21.84	+4.7182	+0.0259	+ 51 58 12.7	+5.413	−0.665	82.5 81.8	5 obs. [10]	51 1028
2087	8.1	57 38.07	4.8988	0.0294	54 48 54.6	5.390	0.690	77.1	5 obs. [11]	54 862
2088	8.4	57 43.19	4.6024	0.0236	49 54 48.9	5.383	0.649	73.8	212 214 372	49 1306
2089	7.8	57 43.84	4.6144	0.0238	50 7 58.4	5.382	0.650	75.1	18 218 622 623	50 1122
2090	8.3	57 51.33	4.7842	0.0280	53 2 26.8	5.372	0.674	81.1	455 621 831 833	53 853
2091	9.0	4 57 59.14	+4.7238	+0.0258	+ 52 2 38.9	+5.360	−0.666	74.1	276 277	52 921
2092	8.6	58 2.13	4.7181	0.0256	51 56 48.7	5.356	0.665	73.4	27 154 155 625	51 1031
2093	8.9	58 19.44	4.6334	0.0239	50 27 29.3	5.332	0.654	72.1	158 159	50 1125
2094	8.8	58 22.92	4.7337	0.0258	52 11 48.7	5.327	0.668	75.1	373 374	52 923
2095	8.4	58 47.78	4.6421	0.0239	50 35 56.3	5.292	0.655	71.0	13 15 18 21	50 1127
2096	8.1	4 58 52.91	+4.8257	+0.0274	+ 53 39 51.6	+5.285	−0.681	76.8	455 518 519 520	53 854
2097	9.0	58 56.59	4.7133	0.0252	51 50 5.1	5.280	0.665	74.8	152 214 516 517	51 1033
2098	9.8	59 44.40	4.7584	0.0257	52 33 37.6	5.212	0.672	77.1	154 277 838	} 52 927
2099	9.5	59 44.47	4.7583	0.0257	52 33 31.4	5.212	0.672	85.1	834	
2100	8.6	5 0 0.84	4.7331	0.0251	52 7 57.9	5.189	0.669	75.1	373 374	52 928

[1] Z. 458 459 460 516 517
[2] Z. 373 374 767 770 771
[3] 153 214 372 373 374 770 771
[4] Z. 15 158 159 371 372
[5] Z. 458 459 460 516 517
[6] 27ˢ.00 27ˢ.13 [26ˢ.70]
[7] Z. 276 277 622 728 832α 835 836
[8] Z. 521 624 625 838 842
[9] Z. 633 634 718 721 725
[10] Z. 624 721 836 837 839α
[11] Z. 516 517 518 519 520

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2101	8.0	$5^h\ 0^m\ 3^s.34$	+4ˢ.8204	+0ˢ.0268	+ 53°32′41″.2	+5″.186	−0″.681	76.1	455 460	53° 858
2102	8.5	1 2.84	4.7637	0.0253	52 36 20.5	5.102	0.674	74.1	276 277	52 930
2103	7.2	1 28.96	4.7936	0.0256	53 4 29.8	5.065	0.679	75.1	373 374	53 863
2104	9.0	1 52.71	4.7234	0.0242	51 54 35.0	5.032	0.669	71.8	27 28 155 214	51 1037
2105	7.2	1 52.84	4.8080	0.0257	53 17 32.2	5.031	0.681	76.9	6 obs. [1]	53 864
2106	9.0	5 2 56.92	+4.8530	+0.0262	+ 53 57 34.6	+4.941	−0.688	75.1	373 374	53 866
2107	9.2	3 17.86	4.6674	0.0226	50 54 9.5	4.911	0.662	71.4	18 21 159	— —
2108	8.8	3 20.01	4.8227	0.0254	53 28 44.4[2]	4.908	0.684	82.1 80.6	455 836α 838	53 867
2109	8.9	3 29.32	4.8197	0.0252	53 25 34.9	4.895	0.684	77.1	5 obs. [3]	53 868
*2110	9.2	3 46.99	4.6131	0.0216	49 54 45.3	4.870	0.654	85.1	832 834 837	49 1324
2111	8.7	5 3 47.20	+4.7031	+0.0231	+ 51 30 25.3	+4.870	−0.668	72.1	27 28 212 214	51 1042
2112	8.9	3 48.47	4.7850	0.0245	52 51 56.9	4.868	0.679	72.8	154 155 277	52 934
2113	8.2	3 58.36	4.8980	0.0264	54 36 20.7	4.854	0.695	78.0	612 621	54 870
2114	8.0	4 2.31	4.8494	0.0255	53 52 17.3	4.848	0.688	77.1	518 519 520	53 869
2115	7.3	4 13.08	4.6908	0.0227	51 16 57.9	4.833	0.666	73.6	152 153 373 374	51 1043
2116	6.2	5 4 42.76	+4.7990	+0.0243	+ 53 3 44.7	+4.791	−0.682	77.2	6 obs. [4]	53 872
2117	9.2	4 49.50	4.8002	0.0243	53 4 41.2	4.781	0.682	77.1	518 520	53 874
2118	8.6	5 9.03	4.6865	0.0222	51 10 45.8	4.754	0.666	72.4	27 28 374	51 1044
2119	8.9	5 10.47	4.6622	0.0218	50 45 16.1	4.752	0.662	72.4	21 216 218	50 1135
2120	7.6	6 1.90	4.6446	0.0212	50 24 53.6	4.679	0.661	72.1	158 159	50 1136
2121	8.9	5 6 7.66	+4.6789	+0.0217	+ 51 1 5.7	+4.671	−0.666	73.1	212 214	50 1137
2122	8.4	6 12.13	4.7252	0.0225	51 48 36.2	4.664	0.672	71.1	27 28	51 1047
2123	9.2	6 27.00	4.6472	0.0211	50 26 58.7	4.643	0.661	78.7	5 obs. [5]	50 1138
2124	8.8	6 34.51	4.7080	0.0220	51 30 24.6	4.633	0.670	72.1	152 153	51 1048
2125	7.8	6 39.06	4.8187	0.0238	53 19 8.7	4.626	0.686	78.1	622 623	53 878
2126	9.0	5 6 46.47	+4.8096	+0.0236	+ 53 10 18.5	+4.616	−0.684	78.1	624 625	53 879
2127	7.2	6 48.81	4.8650	0.0246	54 1 44.4	4.612	0.692	77.1	518 520	54 874
2128	9.0	6 57.12	4.7444	0.0225	52 6 31.2	4.600	0.675	72.1	154 155	52 938
2129	8.9	7 7.89	4.8271	0.0238	53 26 10.2	4.585	0.687	82.3 83.4	5 obs. [6]	53 880
2130	8.9	7 9.92	4.8022	0.0233	53 2 35.3	4.582	0.684	78.1	5 obs. [7]	53 881
*2131	8.9	5 7 10.38	+4.9199	+0.0253	+ 54 50 14.2	+4.582	−0.700	82.3	5 obs. [8]	54 875
2132	8.0	7 12.63	4.8276	0.0237	53 26 33.6	4.578	0.688	78.1	622 623 627	53 882
2133	8.6	7 28.63	4.8341	0.0237	53 32 9.1	4.556	0.688	79.1	722 725 726	53 884
2134	9.0	7 29.20	4.8452	0.0239	53 42 24.4	4.555	0.690	82.6	6 obs. [9]	53 883
2135	8.6	7 35.97	4.8811	0.0245	54 15 3.1	4.545	0.695	77.1	518 520	54 878
2136	9.2	5 7 37.77	+4.6490	+0.0207	+ 50 26 53.0	+4.543	−0.662	72.6	158 159 212 214	50 1143
2137	9.1	8 10.11	4.7550	0.0222	52 14 59.8	4.497	0.678	74.4	218 373 374	52 940
2138	8.9	8 12.74	4.9379	0.0252	55 4 10.0	4.493	0.704	84.2	774 776	55 979
2139	8.2	8 46.10	4.7377	0.0216	51 56 50.9	4.446	0.676	71.1	27 28	51 1051
*2140	8.3	8 47.30	4.7830	0.0223	52 41 28.4	4.444	0.682	72.1	152 153 154 155	52 942
2141	8.9	5 9 8.15	+4.9205	+0.0244	+ 54 47 36.1	+4.414	−0.702	76.4	374 518 520	54 879
2142	8.2	9 20.60	4.6579	0.0202	50 33 29.5	4.397	0.665	72.0	13 15 212 214	50 1147
2143	9.0	9 44.20	4.8569	0.0232	53 49 33.4	4.363	0.693	78.0	612 621	53 888
2144	8.1	10 3.96	4.6778	0.0202	50 53 16.1	4.335	0.668	71.0	18 21	50 1149
2145	8.2	10 5.16	4.9307	0.0241	54 55 0.6	4.333	0.704	76.6	374 518 519 520	54 880
2146	6.5	5 11 6.04	+4.8786	+0.0228	+ 54 7 10.6	+4.246	−0.697	77.1	518 520	54 882
2147	8.6	11 7.24	4.6564	0.0195	50 28 59.1	4.245	0.666	81.3	8 obs. [10]	50 1151
2148	9.4	11 19.72	4.7025	0.0200	51 16 59.5	4.227	0.672	71.1	24 27 28	51 1055
2149	9.5	11 26.95	4.7185	0.0202	51 33 7.8	4.217	0.674	85.1	836α 840 841	[51 1056]
2150	8.8	11 28.48	4.6443	0.0192	50 15 31.3	4.214	0.664	73.9	5 obs. [11]	50 1152

[1] Z. 459 516 517 518 519 520
[2] 44ˢ.4 [38ˢ.6] 44ˢ.5
[3] Z. 516 517 518 519 520
[4] Z. 459 516 517 519 612 621
[5] Z. 218 373 374 838 839
[6] Z. 623α 627 832 833 835
[7] Z. 632 633 634 639 640
[8] Z. 635 636 834 840 841
[9] Z. 637 638 774 831 837 838
[10] Z. 13 15 774 776 832 834 837 838
[11] Z. 18 214 375 376 379

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2151	8.2	$5^h\,11^m\,56^s.46$	+4ˢ.7082	+0ˢ.0199	+ 51°21′47″.6	+4″.175	−0″.673	81.6	622 623 831 839	51°1059
2152	9.2	12 4.18	4.7483	0.0204	52 2 4.8	4.164	0.679	73.1	154 155 376	52 946
2153	8.7	12 4.87	4.7512	0.0205	52 5 0.8	4.162	0.679	77.1	521 523	52 947
2154	9.0	12 27.78	4.8021	0.0211	52 54 1.0	4.130	0.687	78.1	624 625	— —
2155	8.8	12 36.86	4.6523	0.0189	50 22 14.8	4.117	0.666	73.1	217 218	50 1156
2156	9.0	5 12 39.40	+4.8348	+0.0215	+ 53 24 32.8	+4.113	−0.692	78.0	612 621	53 891
2157	8.4	12 39.66	4.7845	0.0207	52 36 45.4	4.113	0.685	84.2	774 776	52 949
2158	8.0	12 40.09	4.8026	0.0210	52 54 9.4	4.112	0.687	78.1	624 625	52 950
2159	9.1	12 45.59	4.8405	0.0215	53 29 45.7	4.104	0.692	77.4	516 517 622	53 892
2160	9.2	12 48.74	4.8539	0.0217	53 42 5.6	4.100	0.694	78.6	633 634 722 723	53 893
2161	8.3	5 12 48.82	+4.6940	+0.0194	+ 51 5 50.6	+4.100	−0.672	71.0	24 26	51 1063
2162	9.4	12 50.60	4.9355	0.0230	54 54 58 8	4.097	0.706	77.1	518 520	54 885
2163	9.0	13 0.30	4.8420	0.0214	53 30 44.8	4.083	0.693	78.1	623 635 636	53 894
2164	9.5	13 11.62	4.7980	0.0207	52 48 56.3	4.067	0.687	77.1	521 523	52 952
2165	8.9	13 13.94	4.8656	0.0217	53 52 9.2	4.064	0.696	78.7	5 obs. [1]	53 895
2166	8.7	5 13 18.92	+4.8708	+0.0217	+ 53 56 44.7	+4.057	−0.697	78.1	624 625	53 896
2167	8.8	13 33.68	4.8262	0.0210	53 15 12.7	4.036	0.691	77.6	518 520 612 621	53 897
2168	9.0	13 44.53	4.8387	0.0211	53 26 39.0	4.020	0.693	77.1	5 obs. [2]	53 898
2169	8.2	13 49.38	4.6386	0.0182	50 5 43.0	4.013	0.664	71.8	5 obs. [3]	50 1159
*2170	9.4	13 51.73	4.8715	0.0215	53 56 36.8	4.010	0.698	85.1	835	53 899
2171	8.7	5 13 53.48	+4.6630	+0.0185	+ 50 31 44.3	+4.007	−0.668	81.5	7 obs. [4]	50 1160
2172	9 8	14 0.19	4.6915	0.0188	51 1 27.1[5]	3.998	0.672	74.4	24 27 28 774	51 1065
2173	8.6	14 2.94	4.7991	0.0203	52 48 42.7	3.994	0.687	73.1	152 153 275 276	52 953
2174	8.8	14 10.63	4.6531	0.0183	50 20 46.6[6]	3.983	0.667	74.1 73.6	159 376 379α	50 1161
2175	8.0	14 31.78	4.7565	0.0196	52 6 31.0	3.953	0.682	74.6	154 155 526 527	52 955
2176	8.3	5 14 45.50	+4.8646	+0.0210	+ 53 49 2.4	+3.933	−0.697	76.1	458 459	53 901
2177	9.2	14 52.16	4.7218	0.0189	51 31 19.6	3.924	0.677	76.3	5 obs. [7]	51 1067
2178	8.3	15 8.11	4.6837	0.0183	50 51 40.1	3.901	0.672	71.8	5 obs. [8]	50 1166
2179	8.9	15 23.84	4.6496	0.0178	50 15 12.3	3.878	0.667	73.6	214 215 275 276	50 1168
2180	9.0	15 33.73	4.7218	0.0187	51 30 14.8	3.864	0.677	74.4	24 27 28 774	51 1069
2181	9.0	5 15 36.08	+4.8241	+0.0201	+ 53 10 13.8	+3.861	−0.692	75.5	5 obs. [9]	53 903
2182	9.3	16 10.38	4.7842	0.0193	52 31 21.5	3.812	0.686	72.1	152 153	52 958
2183	8.9	16 20.49	4.6876	0.0179	50 53 59.4	3.797	0.673	72.3	13 159 217 218	50 1169
2184	8.7	16 58.13	4.6466	0.0171	50 9 48.1	3.743	0.667	78.4	7 obs. [10]	50 1172
2185	8.5	17 17.29	4.8463	0.0196	53 28 38.1	3.716	0.696	75.1	375 376 379	53 906
2186	8.8	5 17 28.70	+4.8569	+0.0197	+ 53 38 13.5	+3.700	−0.698	78.0	612 621	53 907
2187	9.2	17 38.45	4.8777	0.0199	53 56 56.4	3.686	0.702	83.4	623 842 843 844	53 908
2188	9.0	18 4.83	4.6415	0.0167	50 2 44.2	3.648	0.667	73.1	214 215	50 1175
2189	9.1	18 6.73	4.8809	0.0197	53 59 15.6	3.645	0.702	80.4	612 621 839	53 910
2190	9.2	18 17.80	4.8783	0.0196	53 56 38.9	3.629	0.701	75.2	376 379	53 911
2191	9.5	5 18 26.65	+4.6606	+0.0168	+ 50 22 44.0	+3.616	−0.670	75.3	5 obs. [11]	50 1176
2192	8.3	18 28.30	4.9378	0.0203	54 49 11.9	3.614	0.710	82.2	626 774 776	54 894
2193	9.0	18 40.49	4.6670	0.0168	50 29 6.5	3.597	0.671	79.6	6 obs. [12]	50 1177
2194	8.6	18 42.03	4.6866	0.0170	50 49 46.3	3.594	0.674	74.1	275 276	50 1178
2195	8.4	19 2.15	4.7351	0.0174	51 38 59.2	3.565	0.681	71.0	24 26	51 1072
2196	7.5	5 19 15.63	+4.8864	+0.0193	+ 54 2 44.7	+3.546	−0.703	78.0	612 621	54 896
2197	7.7	19 47.45	4.8400	0.0184	53 19 32.0	3.501	0.697	80.8	277 774 776	53 912
2198	9.6	20 23.52	4.9266	0.0193	54 36 56.0	3.449	0.709	78.0	612 621	54 899
2199	8.8	20 31.39	4.8563	0.0172	53 33 42.1	3.437	0.699	75.1	375 376 379	53 914
2200	9.8	20 32.99	4.7795	0.0174	52 20 56.2	3.435	0.688	73.1	214 215	52 963

[1] Z. 458 459 637 638·844
[2] Z. 516 517 521 526 527
[3] Z. 13 18 21 214 215
[4] Z. 216 218 774 831 837 839 842
[5] [21″.8] 27″.3 26″.8 27″.3
[6] 47″.1 46″.2 [42″.7]
[7] Z. 27 28 516 517 836
[8] Z. 13 18 21 216 218
[9] Z. 375 376 379 458 459
[10] Z. 214 215 275 276 774 837 838
[11] Z. 159 216 217 218 841
[12] Z. 214 623 624 625 835 836

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2201	8.2	$5^h\,20^m\,40^s.99$	+4ˢ.8241	+0ˢ.0179	+ 53° 3′ 32″.3	+3″.424	−0″.695	77.1	518 520	53° 915
2202	9.1	20 56.06	4.7112	0.0164	51 12 15.9	3.402	0.678	74.7	5 obs. [1]	51 1075
2203	8.4	21 6.24	4.8368	0.0178	53 14 55.4	3.387	0.697	83.0	6 obs. [2]	53 917
2204	9.5	21 13.41	4.9242	0.0189	54 33 49.8	3.377	0.709	77.2	526 527	54 902
2205	8.4	21 14.11	4.9243	0.0188	54 33 55.1	3.376	0.709	77.2	515 516 526 527	
2206	7.7	5 21 19.08	+4.7104	+0.0162	+ 51 10 55.3	+3.369	−0.678	71.4	27 28 153	51 1076
2207	9.0	21 23.05	4.7117	0.0162	51 12 11.1	3.363	0.679	79.6	275 835	51 1077
2208	8.9	21 35.04	4.9319	0.0188	54 40 11.4	3.346	0.711	75.1	375 376 379	54 903
2209	8.2	22 0.16	4.6591	0.0154	50 16 29.0	3.310	0.672	71.0	18 21	50 1183
2210	9.2	22 3.52	4.7740	0.0166	52 13 39.4	3.305	0.688	74.1	5 obs. [8]	52 965
2211	7.6	5 22 4.99	+4.6966	+0.0158	+ 50 55 42.8	+3.303	−0.677	70.9	13 15	50 1184
2212	7.6	22 7.20	4.7088	0.0159	51 8 20.7	3.300	0.679	72.1	154 158 159	51 1080
2213	9.2	22 7.96	4.7181	0.0160	51 17 45.2	3.298	0.680	74.1	24 26 515 516	51 1079
2214	8.6	22 58.47	4.7631	0.0162	52 1 55.3	3.226	0.687	74.7	5 obs. [4]	52 967
2215	9.5	22 58.54	4.8992	0.0177	54 9 40.1 [5]	3.226	0.707	79.9 78.5	278 516 774α 776	54 906
2216	9.3	5 23 9.62	+4.9294	+0.0180	+ 54 36 9.6	+3.210	−0.711	75.1	375 376 379	54 909
2217	9.0	23 10.09	4.7173	0.0156	51 15 45.9	3.209	0.680	71.0	24 26	51 1081
2218	7.8	23 11.25	4.6711	0.0151	50 27 47.3	3.208	0.674	71.0	13 15 18 21	50 1188
2219	8.0	23 22.24	4.7242	0.0156	51 22 28.2	3.192	0.681	72.1	152 153	51 1083
2220	9.3	23 24.26	4.7316	0.0157	51 29 58.3	3.189	0.682	80.4	28 834 835	51 1082
2221	8.0	5 23 29.84	+4.7962	+0.0163	+ 52 33 30.6	+3.181	−0.692	73.6	214 215 275 276	52 968
2222	9.2	23 52.42	4.7162	0.0153	51 13 46.6	3.148	0.680	72.1	154 155	51 1084
2223	9.5	24 0.33	4.9496	0.0179	54 52 43.9	3.137	0.714	75.1	375 376 379	54 910
2224	8.6	24 2.34	4.6473	0.0145	50 1 24.0	3.134	0.671	71.0	13 15 18 21	50 1191
2225	9.4	24 7.62	4.8352	0.0165	53 9 51.4	3.126	0.698	79.2	278 776	53 921
2226	9.1	5 24 11.62	+4.7204	+0.0152	+ 51 17 42.6	+3.120	−0.681	71.0	24 26	51 1086
2227	8.7	24 18.62	4.7708	0.0157	52 7 55.4	3.110	0.689	73.1	216 217 218	52 969
2228	9.0	24 19.20	4.9339	0.0175	54 38 44.8	3.110	0.712	77.1	6 obs. [6]	54 911
2229	8.3	24 39.29	4.7528	0.0154	51 49 44.3	3.081	0.686	72.1	152 158 159	51 1087
2230	7.4	24 48.06	4.8180	0.0160	52 52 55.3	3.068	0.696	73.1	214 215	52 971
2231	9.2	5 24 51.70	+4.8263	+0.0161	+ 53 0 36.6	+3.063	−0.697	74.6	275 276 376 379	52 972
2232	8.6	24 58.96	4.7157	0.0148	51 11 58.3	3.052	0.681	71.0	24 26.	51 1089
2233	8.5	25 38.76	4.7936	0.0154	52 28 38.6	2.995	0.692	73.1	154 155 275 276	52 973
2234	9.5	25 45.58	4.6583	0.0140	50 11 15.4	2.985	0.673	71.0	18 21	50 1195
2235	9.0	25 48.02	4.6441	0.0138	49 56 0.4	2.982	0.671	73.1	5 obs. [7]	49 1369
2236	5.9	5 26 19.82	+4.9156	+0.0164	+ 54 20 33.5	+2.936	−0.710	75.6	6 obs. [8]	54 914
2237	8.8	27 39.01	4.7251	0.0139	51 18 42.8	2.821	0.683	72.3	5 obs. [9]	51 1092
2238	8.6	28 2.94	4.9552	0.0160	54 53 16.2	2.787	0.717	80.8	278 774 776	54 918
2239	9.2	28 9.58	4.7234	0.0137	51 16 28.9	2.777	0.683	71.1	27 28 29	51 1093
2240	8.2	28 26.94	4.6761	0.0131	50 27 10.9	2.752	0.677	74.1	275 276	50 1203
2241	7.8	5 28 27.50	+4.7289	+0.0136	+ 51 21 40.4	+2.751	−0.684	72.1	152 153	51 1094
2242	8.6	28 32.97	4.7083	0.0134	51 0 34.4	2.743	0.681	71.0	18 21	50 1204
2243	9.2	28 43.54	4.7024	0.0133	50 54 23.5	2.728	0.680	77.6	8 obs. [10]	50 1205
2244	9.2	28 44.99	4.7070	0.0133	50 59 1.6	2.726	0.681	73.1	214 216 217 218	50 1206
2245	8.9	28 49.02	4.8617	0.0147	53 29 24.9	2.720	0.704	75.1	375 376 379	53 928
2246	8.6	5 28 52.18	+4.6455	+0.0127	+ 49 54 14.6	+2.716	−0.672	84.6	776 831	49 1379
2247	8.9	28 56.06	4.9060	0.0151	54 9 23.5	2.710	0.710	77.6	515 516 622 623	54 920
2248	8.5	28 56.74	4.6672	0.0128	50 17 21.5	2.709	0.676	76.4	219 631 632	50 1208
2249	9.1	29 10.72	4.9480	0.0154	54 45 57.2	2.689	0.716	77.1	518 520	54 921
2250	9.3	29 21.45	4.8821	0.0147	53 47 29.3	2.673	0.707	74.1	278	53 929

[1] Z. 24 26 152 276 836 [2] Z. 278 774 776 834 837 838 [3] Z. 214 215 275 276 458
[4] Z. 216 217 218 526 527 [5] 41″.4 39″.4 [45″.1] 39″.5 [6] Z. 515 516 518 520 526 527
[7] Z. 214 215 216 217 218 [8] Z. 278 375 376 379 515 516 [9] Z. 24 26 216 217 218
[10] Z. 158 159 215 527 624 625 834 835

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2251	9.4	$5^h\,29^m\,22^s.20$	+4ˢ.8822	+0ˢ.0147	+ 53°47′37″.0	+2″.672	−0″.707	74.1	278	53° 929
2252	8.8	29 29.84	4.6511	0.0125	49 59 39.4	2.661	0.674	75.1	18 21 275 276 836	49 1382
2253	8.8	29 33.64	4.8093	0.0139	52 39 40.1	2.656	0.696	72.1	154 155	52 981
2254	8.6	29 39.32	4.7240	0.0131	51 15 31.7	2.648	0.684	75.1	7 obs. [1]	51 1096
2255	8.3	29 49.17	4.8200	0.1139	52 49 34.0	2.633	0.698	78.2 77.5	9 obs. [2]	52 982
2256	9.0	5 29 55.62	+4.8602	+0.0142	+ 53 26 55.4	+2.624	−0.704	75.1	375 376 379	53 930
2257	8.2	30 13.02	4.9675	0.0151	55 1 41.0	2.599	0.720	84.2	774 776	55 1006
2258	9.4	30 20.69	4.9295	0.0147	54 28 48.0	2.588	0.714	77.2	515 516 526 527	54 923
2259	8.4	30 26.34	4.6496	0.0121	49 57 5.8	2.580	0.674	72.1	158 159	49 1386
2260	7.7	30 41.62	4.8002	0.0134	52 29 47.5	2.557	0.696	73.1	152 153 219 275 276	52 983
2261	8.8	5 31 5.72	+4.9137	+0.0142	+ 54 14 13.3	+2.522	−0.712	77.1	518 520	54 924
2262	6.2	31 11.92	4.8601	0.0137	53 25 40.4	2.514	0.704	74.1	277 278	53 934
2263	9.2	31 12.89	4.7898	0.0130	52 19 17.8	2.512	0.694	73.1	214 215 216 217 218	52 984
2264	8.3	31 13.64	4.7763	0.0129	52 6 9.5	2.511	0.692	72.1	154 155	52 985
2265	9.4	31 22.26	4.8608	0.0136	53 26 8.9	2.498	0.705	75.1	375 376 379	53 935
2266	9.2	5 31 27.69	+4.8487	+0.0133	+ 53 14 57.0	+2.491	−0.703	77.1	521 523	53 936
2267	9.2	31 41.96	4.9164	0.0140	54 16 0.8	2.470	0.713	77.3 77.2	5 obs. [3]	54 926
2268	8.7	32 10.84	4.8623	0.0133	53 26 51.3	2.428	0.705	74.6	277 278 376 379	53 938
2269	8.4	32 16.48	4.9512	0.0140	54 45 52.5	2.420	0.718	77.1	518 520	54 928
2270	9.0	32 17.99	4.8642	0.0132	53 28 30.1	2.418	0.705	84.2	774 776	53 939
2271	8.3	5 32 20.20	+4.8079	+0.0127	+ 52 35 47.0	+2.415	−0.697	74.7	8 obs. [4]	52 986
2272	9.0	32 45.79	4.9126	0.0134	54 11 43.7	2.378	0.712	77.1	6 obs. [5]	54 930
2273	9.1	32 59.33	4.7807	0.0122	52 8 56.6	2.358	0.693	72.8	152 219 220	52 988
2274	7.1	33 22.98	4.7980	0.0122	52 25 21.4	2.324	0.696	73.1	154 155 275 276	52 989
2275	9.1	33 28.70	4.9270	0.0133	54 23 51.7	2.316	0.715	74.1	277 278	54 931
2276	7.8	5 33 36.20	+4.6913	+0.0113	+ 50 38 19.3	+2.305	−0.681	71.0	18 21	50 1218
2277	7.2	33 38.55	4.9550	0.0134	54 48 3.9	2.301	0.719	75.1	375 376 379	54 932
2278	9.1	34 6.68	4.9689	0.0133	54 59 32.2	2.260	0.721	77.1	515 516 518 520	54 933
2279	8.6	34 17.18	4.8120	0.0119	52 37 58.0	2.245	0.698	73.1	214 215 219 220	52 991
2280	8.0	34 21.36	4.6978	0.0110	50 44 27.8	2.239	0.682	72.1	158 159	50 1220
2281	8.7	5 34 52.54	+4.9497	+0.0128	+ 54 42 27.1	+2.194	−0.719	76.3	7 obs. [6]	54 935
2282	8.2	35 15.60	4.8099	0.0115	52 35 14.8	2.161	0.698	74.1	275 276	52 993
2283	8.6	35 20.98	4.6943	0.0106	50 40 1.3	2.153	0.682	73.1	214 215 216 217 218	50 1222
2284	8.5	35 21.44	4.8534	0.0118	53 16 4.2	2.152	0.705	74.1	277 278	53 941
2285	7.6	35 22.46	4.9037	0.0122	54 1 44.4	2.151	0.712	77.1	518 520	54 936
2286	6.6	5 35 30.38	+4.7803	+0.0112	+ 52 6 28.8	+2.139	−0.694	72.1	154 155	52 994
2287	9.0	35 31.20	4.9275	0.0123	54 22 38.9	2.138	0.716	78.9	8 obs. [7]	54 937
2288	8.7	36 2.08	4.6905	0.0104	50 35 32.0	2.093	0.681	73.1	219 220	50 1223
2289	9.6	36 15.43	4.8852	0.0116	53 44 25.9	2.074	0.710	82.7 82.4	5 obs. [8]	53 942
2290	9.4	36 50.06	4.7391	0.0104	51 24 41.2	2.024	0.689	76.6	24 376 379 837	51 1108
2291	6.8	5 37 6.78	+4.7427	+0.0103	+ 51 28 4.7	+1.999	−0.689	73.1	216 217 218 219 220	51 1111
*2292	8.6	37 12.20	4.7380	0.0102	51 23 17.4	1.992	0.688	85.1	840 841	51 1110
2293	9.6	37 13.18	4.9410	0.0116	54 33 15.2	1.990	0.718	80.5	624 625 843	[54 941]
2294	6.7	37 20.03	4.9334	0.0115	54 26 31.4	1.980	0.717	77.1	6 obs. [9]	54 942
2295	7.0	37 36.46	4.6600	0.0096	50 2 8.3	1.956	0.677	73.1	214 215	50 1225
2296	8.8	5 37 59.18	+4.8158	+0.0104	+ 52 38 51.8	+1.923	−0.700	73.1	154 155 275 276	52 997
2297	9.5	38 13.38	4.9527	0.0112	54 42 37.6	1.903	0.720	75.2	376 379	54 946
2298	9.2	38 20.18	4.8879	0.0108	53 45 21.6	1.893	0.710	74.1	277 278	53 948
2299	8.7	38 25.19	4.8868	0.0107	53 44 18.4	1.886	0.710	75.9	277 278 523 526 527	53 949
2300	9.0	38 28.22	4.8066	0.0102	52 29 45.1	1.881	0.699	73.1	216 217 218 219 220	52 999

[1] Z. 24 26 27 28 29 834 837 [2] Z. 214 215 216 217 218 774α 776 831 835 [3] Z. 515 516 526 527 623α
[4] Z. 214 215 216 217 218 275 276 777 [5] Z. 515 516 521 523 526 527 [6] Z. 375 376 379 515 516 526 527
[7] Z. 515 516 521 523 526 527 774 776 [8] Z. 278 774α 838 840 841 [9] Z. 515 516 521 523 526 527

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2301	8.9	$5^h\,38^m\,30^s.09$	+4ˢ.7141	+0ˢ.0096	+ 50°58′ 4″.6	+1″.878	−0″.685	73.1	214 215	50° 1229
2302	7.9	38 34.56	4.8097	0.0101	52 32 36.1	1.872	0.699	84.2	774 776	52 1000
2303	8.2	38 47.94	4.7230	0.0095	51 6 58.3	1.853	0.687	71.0	24 26	51 1112
2304	8.4	38 49.62	4.9035	0.0106	53 59 3.9	1.850	0.713	74.1	281 282	53 950
2305	8.6	39 22.74	4.6623	0.0089	50 3 22.7	1.802	0.678	72.8	161 216 217 218	50 1232
2306	8.8	5 39 22.86	+4.6910	+0.0090	+ 50 33 37.0	+1.802	−0.682	72.1	158 159	50 1231
2307	8.8	39 30.73	4.8697	0.0101	53 28 6.3	1.790	0.708	74.1	277 278	53 951
2308	9.4	39 45.88	4.9059	0.0102	54 0 36.4	1.768	0.713	76.1	376 379 515 516	54 949
2309	8.1	39 57.03	4.7363	0.0091	51 19 38.8	1.752	0.689	72.4	6 obs. [1]	51 1114
2310	8.9	40 0.70	4.7287	0.0091	51 11 58.1	1.747	0.688	71.1	27 28 29	51 1115
2311	9.0	5 40 2.34	+4.6832	+0.0088	+ 50 24 59.9	+1.744	−0.681	80.5	215 774 776	50 1233
2312	8.8	40 36.52	4.9051	0.0098	53 59 22.0	1.695	0.714	74.1	277 278	53 952
2313	8.5	40 42.82	4.9501	0.0101	54 38 46.6	1.686	0.720	77.2	515 516 526 527	54 951
2314	8.8	40 47.85	4.8688	0.0096	53 26 26.2	1.678	0.708	75.4	281 282 623	53 953
2315	8.9	40 52.90	4.8518	0.0094	53 10 44.2	1.671	0.706	77.1	521 523 524 525	53 954
2316	6.7	5 41 0.45	+4.7456	+0.0088	+ 51 28 24.8	+1.660	−0.690	72.8	6 obs. [2]	51 1117
2317	9.1	41 5.90	4.6981	0.0085	50 39 53.2	1.652	0.684	74.8	5 obs. [3]	50 1235
2318	8.5	41 9.50	4.8661	0.0094	53 23 43.6	1.647	0.708	84.2	774 776 777	53 955
2319	9.3	41 36.40	4.6943	0.0082	50 35 41.1	1.608	0.683	73.1	216 217 218	50 1238
2320	8.6	41 47.34	4.8916	0.0092	53 46 33.6	1.592	0.712	74.1	277 278 281 282	53 957
2321	9.2	5 42 18.93	+4.6838	+0.0079	+ 50 24 15.5	+1.546	−0.682	80.5	215 774 776	— —
2322	8.9	42 19.20	4.7871	0.0084	52 8 31.4	1.546	0.697	73.1	154 155 275 276	52 1003
2323	8.8	42 30.56	4.6840	0.0079	50 24 21.5	1.529	0.682	80.5	215 774 776	50 1239
2324	8.2	42 42.98	4.7033	0.0079	50 44 24.0	1.511	0.684	73.1	216 217 218	50 1240
2325	8.6	42 52.23	4.8249	0.0084	52 44 25.8	1.498	0.702	73.1	219 220	52 1004
2326	9.2	5 42 52.26	+4.8605	+0.0086	+ 53 17 36.4	+1.497	−0.707	74.1	281 282	53 959
2327	9.0	43 2.56	4.9461	0.0089	54 34 0.9	1.482	0.720	77.1	6 obs. [4]	54 953
2328	8.6	43 18.90	4.6761	0.0075	50 15 35.9	1.459	0.681	78.6	220 777	50 1241
2329	8.5	43 42.17	4.8169	0.0080	52 36 23.9	1.425	0.702	75.1	275 276 525	52 1006
2330	8.9	43 54.10	4.6698	0.0073	50 8 41.4	1.408	0.680	80.5	215 776 777	50 1242
2331	8.2	5 44 3.84	+4.7018	+0.0073	+ 50 42 7.8	+1.393	−0.685	73.1	216 217 218	50 1243
2332	8.5	44 14.41	4.8226	0.0078	52 41 34.6	1.378	0.702	77.1	521 523 524	52 1007
2333	9.0	44 21.00	4.9052	0.0081	53 57 23.0	1.368	0.714	74.1	277 278 281 282	53 961
2334	8.8	44 21.84	4.7937	0.0076	52 13 50.2	1.367	0.698	72.1	154 155	52 1008
2335	9.3	44 34.93	4.7656	0.0074	51 46 14.6	1.348	0.694	71.1 71.0	24 26 28α	51 1124
2336	9.2	5 45 25.80	+4.7992	+0.0072	+ 52 18 40.4	+1.274	−0.699	74.1	275 276	52 1010
2337	9.2	45 27.86	4.9647	0.0079	54 48 51.6	1.271	0.723	77.5	6 obs. [5]	54 956
2338	7.8	45 28.12	4.8709	0.0075	53 25 52.2	1.271	0.709	74.1	277 278	53 962
2339	8.8	45 31.90	4.8703	0.0075	53 25 20.8	1.265	0.709	74.1	281 282	53 963
2340	8.1	45 32.40	4.7257	0.0068	51 5 51.7	1.264	0.688	71.0	24 26	51 1125
2341	8.8	5 45 32.52	+4.9218	+0.0077	+ 54 11 33 4	+1.264	−0.717	78.1	626 627	54 957
2342	7.8	45 35.79	4.8398	0.0073	52 57 3.4	1.260	0.705	77.1	521 523 524 525	52 1011
2343	9.1	45 39.46	4.6633	0.0066	50 0 54.3	1.254	0.679	73.1	215 219 220	50 1246
2344	9.0	45 43.09	4.9418	0.0077	54 28 59.4	1.249	0.720	78.1	632 633 634 640	54 958
2345	7.8	46 6.74	4.9258	0.0074	54 14 51.2	1.215	0.718	77.1	524 525	54 959
2346	8.8	5 46 8.65	+4.9368	+0.0075	+ 54 24 25.9	+1.212	−0.719	77.6	526 527 624 625	54 960
2347	8.8	46 10.05	4.7713	0.0068	51 51 10.5	1.210	0.695	71.4	27 28 29 158	51 1126
2348	8.0	46 10.29	4.8775	0.0072	53 31 37.6	1.209	0.710	74.1	279 280	53 966
2349	9.1	46 16.81	4.6929	0.0064	50 31 46.1	1.200	0.684	76.8	217 218 777	50 1247
2350	7.0	46 18.35	4.7668	0.0067	51 46 41.0	1.198	0.694	72.1	154 155 162 163	51 1128

[1] Z. 24 26 154 155 275 276 [2] Z. 24 26 219 220 275 276 [3] Z. 158 159 160 161 843

[4] Z. 515 516 524 525 526 527 [5] Z. 515 516 526 527 624 625

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2351	8.5	$5^h 46^m 18^s.39$	+4ˢ.7519	+0ˢ.0067	+ 51°31′ 50″.9	+1″.198	−0″.692	77.1	5 obs. [1]	51° 1127
2352	8.4	46 25.32	4.8634	0.0070	53 18 36.0	1.188	0.708	74.1	277 278	53 967
2353	9.0[2]	46 27.32	4.8378	0.0069	52 54 53.1	1.185	0.705	74.1	275 276	52 1013
2354	8.6	46 54.56	4.9596	0.0072	54 43 52.3	1.145	0.722	77.5	281 282 777	54 963
2355	8.3	46 55.83	4.7516	0.0064	51 31 18.4	1.143	0.692	80.1	26 771 846	51 1129
2356	8.9	5 46 57.72	+4.7651	+0.0064	+ 51 44 42.3	+1.140	−0.694	71.1	27 28 29	51 1130
2357	9.0	47 15.58	4.8337	0.0066	52 50 39.5	1.114	0.704	77.1	524 525	52 1014
2358	8.9	47 19.20	4.9660	0.0070	54 49 13.7	1.109	0.724	74.1	281 282	54 966
2359	9.0	47 22.68	4.9096	0.0068	53 59 59.8	1.104	0.715	74.1	279 280	53 971
2360	8.5	47 25.41	4.6821	0.0060	50 19 58.9	1.100	0.682	72.8	158 214 215	50 1250
2361	8.9	5 47 50.96	+4.7905	+0.0062	+ 52 9 10.1	+1.063	−0.698	73.8	220 275 276	52 1017
2362	8.8	48 17.47	4.7828	0.0060	52 1 34.0	1.024	0.697	72.1	154 155	52 1018
2363	8.8	48 19.80	4.7279	0.0058	51 6 55.3	1.021	0.689	71.6	24 26 160 161	51 1133
2364	8.5	48 51.96	4.8110	0.0058	52 28 35.6	0.974	0.701	73.1	214 215	52 1019
2365	9.0	49 9.43	4.8180	0.0057	52 35 4.3	0.948	0.702	84.2	777	52 1020
2366	**4.1**	**5 49 14.11**	**+4.9288**	**+0.0060**	**+ 54 16 19.2**	**+0.942**	**−0.718**		**Fund. Cat.**	**54 970**
2367	8.5	49 19.73	4.8066	0.0056	52 24 10.1	0.933	0.701	74.1	276	52 1021
2368	9.0	49 19.92	4.8239	0.0056	52 40 39.1	0.933	0.703	76.9	220 633 634 640	52 1022
2369	8.9	49 22.23	4.8795	0.0058	53 32 14.3	0.930	0.711	74.1	277 278	53 976
2370	7.2	49 29.28	4.9469	0.0059	54 31 57.4	0.920	0.721	75.2	376 379	54 971
2371	9.3	5 49 35.22	+4.9304	+0.0058	+ 54 17 34.2	+0.911	−0.719	77.1	524 525	54 972
2372	9.2	49 37.20	4.8633	0.0056	53 17 19.4	0.908	0.709	74.1	279 280	53 977
2373	6.2	49 39.31	4.6588	0.0051	49 54 29.1	0.905	0.679	72.5	5 obs. [3]	49 1428
2374	8.1	49 44.04	4.9363	0.0058	54 22 39.4	0.898	0.720	84.0	8 obs. [4]	54 973
2375	8.6	49 57.93	4.8022	0.0053	52 19 44.1	0.878	0.700	73.1	214 215 219	52 1023
2376	8.6	5 50 11.23	+4.7469	+0.0051	+ 51 25 26.6	+0.858	−0.692	71.0	24 26	51 1138
2377	9.0	50 16.88	4.8041	0.0052	52 21 28.5	0.850	0.700	74.1	276 277 278	52 1024
2378	8.9	50 17.49	4.9669	0.0056	54 48 56.0	0.849	0.724	79.2	281 282 776 777	54 975
2379	7.2	50 18.82	4.7258	0.0050	51 4 3.9	0.847	0.689	71.6	6 obs. [5]	51 1139
2380	8.9	50 31.03	4.7279	0.0049	51 6 8.6	0.830	0.689	84.8	777 841 845	51 1140
2381	9.0	5 50 41.36	+4.6627	+0.0047	+ 49 58 20.6	+0.814	−0.680	73.1	5 obs. [6]	49 1431
2382	8.2	50 55.19	4.6624	0.0046	49 58 1.7	0.794	0.680	75.3	9 obs. [7]	49 1432
2383	8.9	50 57.03	4.9482	0.0053	54 32 39.8	0.792	0.721	78.6	10 obs. [8]	54 976
2384	8.2	51 2.80	4.7266	0.0047	51 4 39.6	0.783	0.689	71.0	24 26	51 1141
2385	8.7	51 26.08	4.6633	0.0044	49 58 45.4	0.749	0.680	78.4	164 220 776 777	49 1435
2386	8.8	5 51 27.48	+4.9487	+0.0050	+ 54 33 0.0	+0.747	−0.722	74.1	279 280 281 282	54 978
2387	8.8	51 41.57	4.9897	0.0050	55 7 53.4	0.727	0.728	84.1	771	55 1045
2388	9.5	51 51.25	4.8331	0.0046	52 48 34.6	0.713	0.705	73.9	5 obs. [9]	52 1028
2389	9.1	52 48.30	4.7319	0.0040	51 9 39.7	0.630	0.690	73.1	6 obs. [10]	51 1143
2390	7.2	52 59.09	4.8805	0.0042	53 32 7.8	0.614	0.712	74.1	277 278 279 280	53 981
2391	6.0	5 53 5.93	+4.6593	+0.0038	+ 49 54 4.5	+0.604	−0.679	72.8	158 214 217 218	49 1441
2392	9.2	53 11.78	4.8587	0.0041	53 12 5.4	0.595	0.708	75.6	281 282 521 523	53 982
2393	8.6	53 15.22	4.7376	0.0038	51 15 16.7	0.590	0.691	72.3	5 obs. [11]	51 1144
2394	9.0	53 17.30	4.8954	0.0041	53 45 32.2	0.587	0.714	75.2	376 379	53 983
2395	8.8	53 54.86	4.6998	0.0035	50 36 32.4	0.532	0.685	72.1	160 161	50 1262
2396	8.2	5 53 58.28	+4.6781	+0.0037	+ 50 13 52.8	+0.528	−0.682	84.1	771	50 1263
2397	8.7	54 9.55	4.8827	0.0037	53 33 52.8	0.511	0.712	74.1	277 278 281 282	53 985
2398	9.0	54 32.08	4.6602	0.0033	49 54 44.4	0.478	0.680	72.2	163 164	49 1443
2399	6.8	54 34.40	4.7570	0.0034	51 34 24.9	0.475	0.694	72.6	24 26 275 276	51 1146
2400	9.2	54 35.40	4.7576	0.0034	51 35 2.8	0.473	0.694	74.1	275 276	— —

[1] Z. 24 160 161 843 844
[2] Dupl. med.
[3] Z. 162 163 164 217 218
[4] Z. 627 771 780α 835 837 838 844 846
[5] Z. 27 28 29 158 160 161
[6] Z. 214 215 217 218 219
[7] Z. 162 163 214 215 217 218 219 771 780
[8] Z. 279 280 281 282 376 379 776 838 844 846
[9] Z. 214 275 276 277 278
[10] Z. 24 26 219 220 376 379
[11] Z. 27 28 29 275 276

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2401	9.0	5h 54m 35s.42	+4s.9006	+0s.0035	+ 53°49′ 58″.5	+0″.473	−0″.715	74.6	279 280 376 379	53° 986
2402	9.0	54 57.92	4.7178	+0.0032	50 54 53.3	+0.441	0.688	73.1	214 215	50 1264
2403	9.1	54 58.19	4.9398	+0.0034	54 24 29.8	+0.440	0.720	75.6	281 282 521 523	54 980
2404	9.0	55 3.69	4.7079	+0.0031	50 44 42.3	+0.432	0.686	76.8	217 218 777	50 1265
2405	8.8	55 4.90	4.6570	+0.0030	49 51 17.2	+0.430	0.679	73.1	219 220	49 1444
2406	8.5	5 55 43.91	+4.7773	+0.0029	+ 51 54 16.3	+0.374	−0.697	72.6	24 26 275 276	51 1150
2407	8.7	56 1.90	4.7497	+0.0028	51 26 55.7	+0.347	0.693	76.7	5 obs. [1]	51 1151
2408	9.4	56 11.73	4.7548	+0.0027	51 32 2.2	+0.333	0.693	72.1	158 160 161	51 1152
2409	8.8	56 27.61	4.6626	+0.0025	49 57 4.2	+0.310	0.680	84.2	771 777	49 1447
2410	9.0	57 2.31	4.6600	+0.0023	49 54 11.2	+0.259	0.680	73.1	217 218	49 1449
2411	8.9	5 57 6.71	+4.9601	+0.0024	+ 54 41 50.3	+0.253	−0.723	74.6	279 280 376 379	54 986
2412	8.4	57 8.38	4.6684	+0.0023	50 3 11.8	+0.250	0.681	73.1	214 215	50 1267
2413	8.3	57 26.85	4.6625	+0.0022	49 56 53.7	+0.223	0.680	81.4	219 771 777 779	49 1452
2414	8.6	57 34.63	4.7813	+0.0022	51 58 0.2	+0.212	0.697	71.0	24 26	51 1153
2415	9.5	57 41.92	4.7444	+0.0021	51 21 25.7	+0.201	0.692	74.3	5 obs. [2]	51 1154
2416	9.1	5 57 42.38	+4.7480	+0.0021	+ 51 25 4.0	+0.201	−0.692	81.4	160 777 779 839	51 1155
2417	8.4	57 46.18	4.9762	+0.0021	54 55 28.8	+0.195	0.726	75.6	281 282 521 523	54 988
2418	8.8	57 55.42	4.9460	+0.0021	54 29 34.4	+0.182	0.721	74.1	279 280	54 989
2419	8.4	58 10.74	4.8562	+0.0019	53 9 5.6	+0.159	0.708	74.8	278 376 379	53 989
2420	8.4	58 16.38	4.6986	+0.0019	50 34 43.2	+0.151	0.685	73.1	214 215	50 1269
2421	8.8	5 58 34.54	+4.7098	+0.0018	+ 50 46 20.4	+0.125	−0.687	73.1	219 220	50 1271
2422	8.8	58 35.51	4.6868	+0.0017	50 22 27.9	+0.123	0.684	84.8	5 obs. [3]	50 1270
2423	8.7	58 50.42	4.6630	+0.0017	49 57 16.8	+0.102	0.680	73.1	217 218	49 1455
2424	9.2	58 57.50	4.7214	+0.0016	50 58 9.2	+0.091	0.688	73.1	214 215	50 1272
2425	8.6	59 2.85	4.8104	+0.0016	52 26 1.5	+0.083	0.702	74.1	279 280	52 1035
2426	9.0	5 59 16.94	+4.7159	+0.0015	+ 50 52 32.8	+0.063	−0.688	72.2	163 164	50 1274
2427	8.6	59 21.92	4.8323	+0.0014	52 46 45.6	+0.056	0.705	73.1	219 220	52 1038
2428	8.4	59 29.00	4.7554	+0.0014	51 32 20.8	+0.045	0.694	71.0	24 26	51 1158
2429	9.0	6 0 5.20	4.8366	+0.0011	52 50 49.7	−0.008	0.705	73.8	6 obs. [4]	52 1040
2430	8.7	0 13.49	4.6756	+0.0011	50 10 35.8	−0.020	0.682	72.6	160 161 217 218	50 1275
2431	8.9	6 0 19.52	+4.9161	+0.0010	+ 54 3 17.8	−0.028	−0.717	74.1	281 282	54 992
2432	8.9	0 46.36	4.8803	+0.0008	53 31 9.7	−0.068	0.712	75.7	5 obs. [5]	53 993
2433	7.9	0 54.29	4.8881	+0.0008	53 38 16.9	−0.079	0.713	77.3	5 obs. [6]	53 994
2434	8.8	0 56.56	4.9719	+0.0006	54 51 46.8	−0.082	0.725	74.1	279 280	54 993
2435	9.2	0 58.29	4.7394	+0.0008	51 16 23.3	−0.085	0.691	71.1	5 obs. [7]	51 1159
2436	8.4	6 1 42.26	+4.9025	+0.0004	+ 53 51 13.6	−0.149	−0.715	74.8	277 278 457	53 997
2437	6.6	1 42.92	4.8253	+0.0004	52 40 12.6	−0.150	0.704	73.1	214 215 219 220	52 1041
2438	8.4	2 2.62	4.9645	+0.0001	54 45 31.8	−0.179	0.724	75.6	279 280 524 525	54 995
2439	8.4	2 39.02	4.6638	+0.0002	49 58 11.8	−0.232	0.680	72.6	160 161 217 218	49 1464
2440	8.8	2 39.13	4.9123	−0.0001	54 0 1.6	−0.232	0.716	75.1	281 282 457 458	54 997
2441	8.5	6 2 46.28	+4.7656	0.0000	+ 51 42 38.7	−0.242	−0.695	71.0	24 26	51 1161
2442	9.0	2 51.31	4.8307	−0.0001	52 45 24.9	−0.250	0.704	74.1	214 215 376 379	52 1042
2443	9.2	2 52.91	4.7702	0.0000	51 47 11.2	−0.252	0.695	71.0	27 28 29	51 1162
2444	8.8	2 55.32	4.7015	+0.0001	50 37 47.2	−0.256	0.685	72.2	163 164	50 1281
2445	8.9	3 12.82	4.8422	−0.0002	52 56 11.0	−0.281	0.706	73.1	219 220	52 1043
2446	8.4	6 3 20.84	+4.7950	−0.0002	+ 52 11 21.8	−0.293	−0.699	75.2	376 379	52 1044
2447	8.4	3 23.29	4.9612	−0.0005	54 42 49.6	−0.296	0.723	74.1	279 280	54 998
2448	8.7	3 38.05	4.9210	−0.0005	54 7 50.6	−0.318	0.717	75.1	281 282 457 458	54 1000
2449	9.0	3 38.78	4.7844	−0.0003	52 1 9.3	−0.319	0.697	73.1	217 218	52 1045
2450	6.6	3 53.83	4.7349	−0.0004	51 12 5.5	−0.341	0.690	71.7	5 obs. [8]	51 1163

[1] Z. 27 28 29 840 841
[2] Z. 29 158 163 164 776
[3] Z. 771 777 843 844 845
[4] Z. 214 215 277 278 279 280
[5] Z. 278 376 379 524 525
[6] Z. 457 526 527 626 627
[7] Z. 24 26 27 28 29
[8] Z. 24 26 33 34 280

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2451	7.4	6h 4m 0s.92	+4s.7858	−0s.0005	+ 52° 2′ 30″.4	−0″.351	−0″.698	73.1	214 215 217 218	52° 1046
2452	8.8	4 30.84	4.7345	0.0006	51 11 42.8	0.395	0.690	71.8	27 28 29 280	51 1164
2453	8.5	4 43.32	4.7115	0.0006	50 48 20.7	0.413	0.696	73.1	6 obs. [1]	50 1285
2454	8.4	4 49.02	4.7481	0.0007	51 25 28.6	0.421	0.692	71.0	24 26	51 1166
2455	9.3	5 43.29	4.7555	0.0011	51 33 2.0	0.501	0.693	71.1	24 26 27 28 29	51 1168
2456	6.8	6 6 5.82	+4.7964	−0.0014	+ 52 13 9.2	−0.534	−0.699	73.1	214 215	52 1049
2457	8.8	6 8.89	4.9168	0.0017	54 4 28.8	0.538	0.716	74.1	281 282	54 1005
2458	9.1	6 10.76	4.9005	0.0016	53 49 59.8	0.541	0.714	75.1	279 280 457 458	53 1000
2459	8.5	6 13.53	4.8797	0.0016	53 31 13.1	0.545	0.711	75.2	376 379	53 1001
2460	8.5	7 12.70	4.8058	0.0018	52 22 26.3	0 631	0.700	73.5	160 161 219 376 379	52 1052
2461	8.3	6 7 13.23	+4.8187	−0.0019	+ 52 34 45.2	−0.632	−0.702	72.5	163 164 214	52 1053
2462	7.8	7 56.75	4.8919	0.0024	53 42 39.2	0.695	0.713	77.8 77.4	8 obs. [2]	53 1003
2463	9.6	8 18.72	4.8799	0.0025	53 31 51.5	0.727	0.711	75.2	376 379	[53 1004]
2464	8.9	8 19.99	4.8910	0.0026	53 41 58.2	0.729	0.712	80.4	281 282 777 779 844	53 1005
2465	9.0	8 56.02	4.9254	0.0030	54 12 44.7	0.782	0.717	77.8	279 280 844	54 1009
2466	9.1	6 9 37.09	+4.8089	−0.0029	+ 52 25 59.8	−0.841	−0.700	72.4	160 161 214	52 1058
2467	8.8	9 44.77	4.9310	0.0034	54 17 55.6	0.853	0.718	76.1 74.1	279 280 281 282 780	54 1012
2468	9.1	9 59.16	4.7237	0.0027	51 2 2.8	0.874	0.688	72.2	33 34 219 220	51 1176
2469	7.1	10 3.33	4.9310	0.0035	54 17 57.8	0.880	0.718	76.1	279 280 281 282 780	54 1014
2470	8.2	10 51.62	4.7937	0.0033	52 11 49.0	0.950	0.698	73.1	219 220	52 1059
2471	9.1	6 10 52.22	+4.6654	−0.0028	+ 50 1 44.7	−0.951	−0.679	72.2	162 163 164	50 1294
2472	9.0	11 15.46	4.7676	0.0034	51 46 29.0	0.985	0.694	71.0	24 26	51 1179
2473	9.0	11 28.36	4.9441	0.0042	54 29 51.5	1.004	0.720	79.2	281 282 777 779	54 1017
2474	8.4	11 31.75	4.8169	0.0037	52 34 16.5	1.008	0.701	81.2	635 636 777 779	52 1062
2475	...[3]	11 33.40	4.9814	0.0044	55 1 50.8	1.011	0.725	84.2	771 776	55 1068
2476	6.1	6 11 36.65	+4.8771	−0.0040	+ 53 30 22.1	−1.016	−0.710	75.8	379 457 458	53 1008
2477	8.2	11 54.04	4.9587	0.0045	54 42 38.7	1.041	0.722	78.1	631 633 634 639 640	54 1019
2478	8.6	12 16.32	4.7718	0.0038	51 50 57.0	1.073	0.694	71.0	24 26	51 1182
2479	9.0	12 37.06	4.9196	0.0046	54 8 52.0	1.104	0.716	74.1	281 282	54 1021
2480	8.8	13 21.66	4.9108	0.0049	54 1 21.8	1.169	0.714	74.1	281 282	54 1024
2481	8.7	6 13 23.24	+4.6894	−0.0039	+ 50 28 1.2	−1.171	−0.682	72.2	162 164	50 1296
2482	7.6	13 23.56	4.8521	0.0047	53 8 3.4	1.171	0.706	76.1	457 458	53 1011
2483	8.5	13 29.64	4.7569	0.0042	51 36 44.4	1.180	0.692	71.2	33 34	51 1184
2484	8.3	13 33.05	4.7085	0.0040	50 47 51.2	1.185	0.685	76.9	462 528 529	50 1297
2485	8.8	13 39.58	4.7187	0.0041	50 58 19.8	1.195	0.686	78.1	6 obs. [4]	50 1298
2486	8.3	6 13 48.29	+4.8617	−0.0049	+ 53 17 8.7	−1.207	−0.707	78.2	631 639 640	53 1013
2487	8.9	14 11.32	4.6678	0.0041	50 5 38.8	1.241	0.679	76.2	6 obs. [5]	50 1300
2488	8.6	14 22.93	4.6667	0.0042	50 4 34.8	1.258	0.679	76.7	461 462 528 529	50 1301
2489	6.2	14 33.30	4.7280	0.0045	51 8 11.5	1.273	0.688	71.2	33 34	51 1185
2490	7.4	15 17.44	4.7612	0.0050	51 41 49.8	1.337	0.692	72.2	162 164	51 1186
2491	9.6	6 15 36.78	+4.7114	−0.0049	+ 50 51 50.2	−1.365	−0.685	73.1	219 220	50 1303
2492	9.0	15 38.26	4.9486	0.0062	54 35 30.8	1.367	0.719	74.1	281 282	54 1026
2493	8.2	15 40.46	4.8510	0.0056	53 8 4.6	1.371	0.705	76.1	457 458	53 1017
2494	9.1	15 50.46	4.6717	0.0047	50 10 33.7	1.385	0.679	73.2	221 222 223	50 1304
2495	8.9	15 56.68	4.7756	0.0053	51 56 21.2	1.394	0.694	79.8	6 obs. [6]	51 1188
2496	9.4	6 15 58.76	+4.7756	−0.0053	+ 51 56 22.1	−1.397	−0.694	79.0	33 34 771 776 779	51 1189
2497	8.6	16 0.47	4.9373	0.0063	54 25 52.2	1.400	0.718	75.4	380 383 384 462	54 1027
2498	9.0	17 10.40	4.8401	0.0063	52 58 43.9	1.501	0.703	74.8	281 282 380 383 384	53 1022
2499	8.6	17 19.32	4.8171	0.0061	52 37 10.3	1.514	0.700	73.1	219 220	52 1070
2500	9.1	17 37.38	4.8363	0.0064	52 55 23.1	1.541	0.702	73.2	221 222 223	52 1071

[1] Z. 160 161 163 164 376 379 [2] Z. 279 280 281 282 457 458 843 844 [3] Dupl. 9m.3 & 9m.6 med.
[4] Z. 633 634 635 636 637 638 [5] Z. 376 379 461 462 528 529 [6] Z. 33 34 771 776 777 779

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2501	8.4	$6^h\ 17^m 54^s.70$	$+4^s.8498$	$-0^s.0066$	+ 53° 8′ 9″.7	$-1''.566$	$-0''.704$	76.1	457 458	53° 1024
2502	8.6	18 0.64	4.9733	0.0074	54 57 59.0	1.574	0.722	74.1	281 282	54 1030
2503	8.2	18 12.04	4.9378	0.0073	54 27 27.4	1.591	0.717	77.1	524 525	54 1032
2504	8.6	18 13.13	4.9291	0.0072	54 19 54.4	1.592	0.716	81.3	461 462 771 840 842	54 1031
2505	9.2	18 23.04	4.6737	0.0057	50 14 5.2	1.607	0.679	72.1	160 161	50 1308
2506	9.2	6 18 28.46	+4.9520	−0.0075	+ 54 40 0.3	−1.615	−0.719	78.2	6 obs. [1]	54 1033
2507	9.1	18 36.34	4.6799	0.0058	50 20 47.1	1.626	0.680	73.1	219 220	50 1309
2508	8.2	18 48.09	4.9639	0.0077	54 50 21.3	1.643	0.721	77.2	6 obs. [2]	54 1035
2509	7.5	18 49.98	4.8100	0.0067	52 31 13.2	1.646	0.698	73.2	221 222 223	52 1075
2510	7.7	18 51.12	4.9530	0.0077	54 41 4.3	1.648	0.719	77.1	524 525	54 1036
2511	8.4	6 18 51.16	+4.9380	−0.0076	+ 54 28 0.3	−1.648	−0.717	82.2	457 771 777 779	54 1037
2512	9.0	18 54.14	4.8211	0.0068	52 41 50.5	1.652	0.700	76.2	285 528 529	52 1076
2513	7.8	18 57.78	4.7899	0.0066	52 11 58.2	1.657	0.695	74.2	283 284	52 1077
2514	8.9	19 2.10	4.9329	0.0076	54 23 43.5	1.664	0.716	74.8	281 282 458	54 1038
2515	8.7	19 28.46	4.9649	0.0081	54 51 40.2	1.702	0.721	76.6	461 462 524 525	54 1039
2516	9.4	6 19 50.14	+4.9009	−0.0078	+ 53 55 51.1	−1.733	−0.711	75.2	380 383	[53 1026]
2517	9.4	19 59.60	4.7175	0.0066	51 0 34.2	1.747	0.685	77.1	458 631	— —
2518	8.6	19 59.82	4.7440	0.0068	51 27 20.5	1.748	0.688	71.0	24 26	51 1194
2519	9.0	20 15.51	4.6504	0.0062	49 50 26.0	1.770	0.675	84.2	771 780	49 1499
2520	9.3	20 20.46	4.7157	0.0067	50 58 59.5	1.778	0.684	76.5	285 457 458 633 634	50 1312
2521	8.2	6 20 31.15	+4.8321	−0.0076	+ 52 53 15.8	−1.793	−0.701	73.6	221 222 223 283 284	52 1083
2522	9.1	20 31.94	4.7889	0.0073	52 11 59.0	1.794	0.695	84.2	777 779	52 1082
2523	8.8	20 42.58	4.7678	0.0072	51 51 26.2	1.810	0.692	71.2	33 34	51 1197
2524	8.9	20 53.98	4.8987	0.0082	53 54 38.0	1.826	0.711	76.2	461 462	53 1029
2525	7.8	21 8.49	4.8949	0.0083	53 51 21.7	1.847	0.710	75.0	285 380 383 384	53 1031
2526	8.6	6 21 9.71	+4.8310	−0.0078	+ 52 52 36.8	−1.849	−0.700	73.1	219 220 221 222 223	52 1085
2527	8.8	21 12.31	4.7616	0.0074	51 45 40.8	1.853	0.691	71.0	24 26	51 1200
2528	8.3	21 16.48	4.9700	0.0090	54 57 6.5	1.859	0.721	84.7 84.4	6 obs. [3]	54 1041
2529	8.6	21 24.03	4.8300	0.0079	52 51 52.8	1.870	0.700	73.1	219 220 221 222 223	52 1086
2530	8.5	21 53.17	4.9643	0.0092	54 52 41.7	1.912	0.720	76.0	6 obs. [4]	54 1042
2531	8.8	6 21 58.53	+4.7031	−0.0073	+ 50 47 8.0	−1.920	−0.682	80.2	6 obs. [5]	50 1314
2532	7.6	22 0.42	4.9686	0.0093	54 56 24.0	1.923	0.720	83.2	7 obs. [6]	54 1043
2533	8.2	22 14.14	4.6997	0.0073	50 43 45.5	1.943	0.681	71.2	36 37	50 1316
2534	9.4	22 44.66	4.8098	0.0084	52 33 36.6	1.987	0.697	73.2	219 223	52 1091
2535	8.0	22 46.56	4.7176	0.0077	51 2 31.4	1.990	0.684	71.6	24 26 162 164	51 1206
2536	8.9	6 23 16.52	+4.9411	−0.0096	+ 54 33 38.8	−2.033	−0.716	75.6	279 280 524 525	54 1044
2537	8.8	23 20.79	4.8850	0.0092	53 43 58.1	2.039	0.708	75.0	285 380 383 384	53 1035
2538	9.0	23 33.89	4.9148	0.0096	54 10 44.8	2.058	0.712	74.2	283 284	54 1045
2539	...[7]	23 57.38	4.8083	0.0088	52 33 8.9	2.092	0.696	73.1	219 220	52 1097
2540	8.8	24 1.33	4.7187	0.0082	51 4 40.1	2.098	0.684	71.0	24 26	51 1210
2541	8.9	6 24 29.15	+4.6531	−0.0078	+ 49 56 23.7	−2.138	−0.674	71.5	36 37 161	49 1511
2542	8.2	24 35.34	4.7246	0.0084	51 11 5.2	2.147	0.684	71.7	33 34 162 164	51 1211
2543	8.3	24 57.99	4.9142	0.0102	54 11 20.5	2.180	0.711	74.7	6 obs. [8]	54 1048
2544	8.1	25 7.26	4.8330	0.0095	52 57 20.2	2.194	0.700	73.2	220 221 222 223	52 1098
2545	7.9	25 25.94	4.7772	0.0092	52 4 10.2	2.221	0.692	74.2	283 284	52 1099
2546	9.2	6 25 28.64	+4.7661	−0.0091	+ 51 53 18.7	−2.225	−0.690	73.6	33 34 457 458	51 1213
2547	8.2	25 31.48	4.9476	0.0108	54 40 56.8	2.229	0.716	75.6	279 280 524 525	54 1050
2548	8.2	26 9.59	4.6539	0.0085	49 58 37.0	2.284	0.673	72.2	36 37 285	49 1516
2549	9.3	26 44.14	4.7567	0.0096	51 45 7.1	2.334	0.688	71.2	33 34	51 1215
2550	8.7	26 50.48	4.7410	0.0095	51 29 32.9	2.343	0.686	77.6	8 obs. [9]	51 1216

[1] Z. 631 633 634 639 640 641

[2] Z. 461 462 526. 527 635 636

[3] Z. 771 777 779 842 844α 845α

[4] Z. 279 280 281 283 284 845

[5] Z. 160 161 777 779 780 781

[6] Z. 282 771 777 779 842 843 844

[7] Dupl. $8^m.2$ & $9^m.0$ med.; Com. praec. B. $4''.1$

[8] Z. 279 280 285 380 383 384

[9] Z. 161 162 164 457 458 771 777 779

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2551	8.4	$6^h\,27^m\,7^s.31$	+4.8712	−0.0108	+ 53°34′23″.7	−2″.368	−0″.704	74.8	279 280 380 383 384	53° 1039
2552	9.0	27 9.20	4.8101	0.0102	52 37 25.8	2.370	0.696	73.1	219 220	52 1101
2553	9.1	27 27.86	4.7468	0.0098	51 35 53.8	2.398	0.686	72.6 72.4	34 160 221 222 223	51 1219
2554	8.7	27 44.39	4.8735	0.0111	53 36 59.9	2.421	0.704	75.2	285 286 457 458	53 1040
2555	9.0	28 0.50	4.6648	0.0092	50 11 50.0	2.445	0.674	73.2	36 283 284	50 1324
2556	9.3	6 28 10.12	+4.7040	−0.0096	+ 50 53 5.0	−2.458	−0.680	73.1	219 220	50 1325
2557	8.3	28 16.22	4.7285	0.0099	51 18 9.2	2.467	0.683	71.0	24 26	51 1220
2558	8.2	28 32.05	4.7768	0.0105	52 6 28.0	2.490	0.690	79.5	7 obs. [1]	52 1105
2559	8.0	28 33.75	4.6900	0.0097	50 38 49.6	2.493	0.678	72.1	161 162 164	50 1329
2560	...[2]	28 34.15	4.7947	0.0107	52 23 52.2	2.493	0.693	74.2	283 [3]	52 1106
2561	8.9	6 28 45.72	+4.9768	−0.0125	+ 55 8 41.8	−2.510	−0.719	84.2	771 777 779	55 1101
2562	8.8	28 58.81	4.8998	0.0119	54 1 54.0	2.529	0.708	74.6	7 obs. [4]	54 1052
2563	8.8	29 15.10	4.9005	0.0120	54 2 46.8	2.553	0.708	74.6	7 obs. [5]	54 1053
2564	9.5	29 19.24	4.6836	0.0099	50 32 53.7	2.559	0.676	71.2	36 37	50 1332
2565	9.0	29 31.30	4.9046	0.0122	54 6 38.9	2.576	0.708	74.2	283 284	54 1055
2566	8.6	6 30 4.68	+4.7741	−0.0111	+ 52 5 14.3	−2.624	−0.689	73.1	219 220	52 1109
2567	9.4	30 29.84	4.9705	0.0133	55 4 57.3	2.661	0.717	85.2	843 844	[55 1104]
2568	8.8	30 30.19	4.8252	0.0118	52 54 48.7	2.661	0.696	73.2	221 222 223	52 1110
2569	8.9	30 35.40	4.9654	0.0133	55 0 40.3	2.669	0.716	84.7	771 776 845 847	55 1105
2570	8.0	30 53.45	4.7739	0.0114	52 5 49.8	2.695	0.689	73.1	219 220	52 1112
2571	7.5	6 30 57.49	+4.8630	−0.0124	+ 53 30 26.6	−2.701	−0.702	74.8	279 280 380 383 384	53 1049
2572	9.1	31 7.08	4.6646	0.0104	50 14 40.4	2.715	0.673	71.2	36 37	50 1334
2573	8.6	31 22.32	4.9041	0.0130	54 8 0.0	2.737	0.707	74.6	285 286 377 378	54 1058
2574	8.6	31 38.69	4.6610	0.0106	50 11 21.2	2.760	0.672	72.1	160 161	50 1335
2575	9.2	31 57.77	4.8083	0.0122	52 40 11.0	2.788	0.693	74.2	283 284	52 1113
2576	9.0	6 32 15.10	+4.8305	−0.0126	+ 53 1 30.5	−2.813	−0.696	77.5	279 280 526 527 840	53 1051
2577	9.2	32 20.72	4.6919	0.0111	50 44 35.6	2.821	0.676	71.7	36 37 162 164	50 1337
2578	9.0	32 23.74	4.6451	0.0107	49 55 7.9	2.825	0.670	73.6	221 222 223 285 286	49 1530
2579	8.4	32 23.90	4.6737	0.0110	50 25 33.2	2.826	0.674	73.1	219 220	50 1339
2580	9.4	32 24.04	4.6919	0.0111	50 44 41.5	2.826	0.676	72.2	162 164	50 1338
2581	8.3	6 32 27.81	+4.9311	−0.0138	+ 54 32 52.2	−2.831	−0.711	75.1	377 378	54 1060
2582	8.4	32 38.94	4.7182	0.0115	51 11 59.0	2.847	0.680	71.0	24 26	51 1228
2583	9.0	32 47.52	4.6913	0.0113	50 44 26.5	2.860	0.676	75.2	380 383 384	50 1340
2584	8.6	32 59.56	4.8290	0.0129	53 0 52.5	2.877	0.696	80.6 79.6	11 obs. [6]	53 1054
2585	7.9	33 2.92	4.9087	0.0138	54 13 44.6	2.882	0.707	76.1	457 458	54 1061
2586	8.8	6 33 6.67	+4.9006	−0.0138	+ 54 6 34.6	−2.887	−0.706	75.1	377 378	54 1063
2587	8.8	33 9.77	4.8378	0.0131	53 9 17.7	2.892	0.697	84.4	771 777 779 843	53 1055
2588	8.5	33 18.35	4.6723	0.0113	50 25 5.4	2.904	0.673	77.2 78.7	36α 221 222 780 781	50 1341
2589	8.8	33 27.66	4.6585	0.0112	50 10 34.0	2.918	0.671	73.2	219 220	50 1343
2590	8.8	33 30.96	4.6410	0.0111	49 51 53.8	2.922	0.668	72.1	160 161	49 1532
2591	9.4	6 33 32.09	+4 9606	−0.0146	+ 54 59 31.0	−2.924	−0.714	74.1	279 280	54 1064
2592	8.8	33 45.08	4.7805	0.0127	52 15 16.8	2.943	0.688	74.2	283 284	52 1116
2593	9 0	33 59.08	4.9506	0.0147	54 51 20.5	2.963	0.713	74.7	285 286 383 384	54 1067
2594	8.6	34 5.44	4.6629	0.0115	50 16 0.0	2.972	0.671	79.0 80.9	36α 37 771 777 779	50 1346
2595	6.4	34 5.50	4.8539	0.0136	53 25 16.2	2.972	0.699	75.6	377 378 461 462	53 1056
2596	7.8	6 34 9.61	+4.7387	−0.0124	+ 51 34 19.4	−2.978	−0.682	71.0	24 26	51 1229
2597	8.7	34 35.98	4.8189	0.0134	52 53 2.0	3.016	0.693	72.2	162 164	52 1118
2598	7.6	35 10.96	4.8389	0.0140	53 12 30.8	3.067	0.696	75.1	377 378	53 1058
2599	8.9	35 12.58	4.9575	0.0154	54 58 38.6	3.069	0.713	74.6	279 280 383 384	54 1068
2600	8.2	35 22.54	4.9220	0.0150	54 27 58.0	3.083	0.708	74.2	285 286	54 1070

[1] Z. 221 222 223 776 777 779 781 [2] Dupl. $8^m.8$ & $9^m.3$ med. [3] Com. Z. 282 780α 34″.12 (79.2) 53″.3 (74.2)
[4] Z. 279 280 285 286 380 383 384 [5] Z. 279 280 285 286 380 383 384
[6] Z. 461 462 526 527 528 529 840α 842 844 846α 847

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2601	8.6	$6^h\,35^m\,41^s.60$	$+4^s.7768$	$-0^s.0134$	$+\ 52°\,13'\,47''.9$	$-3''.111$	$-0''.687$	73.2	221 222 223	52° 1121
2602	8.4	35 42.33	4.8752	0.0146	53 46 29.3	3.112	0.701	75.1	377 378	53 1059
2603	9.2	35 42.90	4.7768	0.0135	52 13 49.2	3.113	0.686	73.2	222 223	52 1121
2604	8.8	36 2.98	4.7840	0.0137	52 21 15.6	3.142	0.688	75.2	380 383 384	52 1122
2605	8.2	36 21.89	4.7590	0.0135	51 57 6.9	3.169	0.684	71.0	24 26	51 1231
2606	9.4	6 36 36.40	+4.9651	−0.0162	+ 55 6 39.6	−3.190	−0.714	84.2	771 776	55 1120
2607	7.3	36 37.75	4.6738	0.0126	50 30 24.8	3.192	0.671	71.8	36 160 161	50 1349
2608	8.8	36 42.22	4.7750	0.0138	52 13 13.1	3.198	0.686	73.2	221 223	52 1124
2609	8.8	36 42.73	4.9193	0.0156	54 27 7.8	3.199	0.707	74.1	279 281 282	54 1072
2610	8.9	36 56.97	4.8680	0.0151	53 41 24.4	3.219	0.699	74.7	285 286 383 384	53 1063
2611	9.1	6 36 57.74	+4.9036	−0.0155	+ 54 13 29.9	−3.220	−0.704	74.6	283 284 377 378	54 1073
2612	9.3	36 58.28	4.7499	0.0136	51 48 45.0	3.221	0.682	71.2	33 34	51 1234
2613	8.7	37 11.28	4.6958	0.0131	50 54 5.6	3.240	0.674	72.2	162 164	50 1350
2614	8.4	37 40.96	4.7550	0.0140	51 54 41.0	3.282	0.682	71.0	24 26	51 1235
2615	8.8	37 56.86	4.7826	0.0144	52 22 6.4	3.305	0.686	73.2	221 222 223	52 1127
2616	8.7	6 38 25.04	+4.7757	−0.0146	+ 52 15 54.5	−3.346	−0.685	74.2	283 284	52 1128
2617	9.0	38 26.21	4.8388	0.0154	53 16 14.4	3.348	0.694	74.6	285 286 377 378	53 1067
2618	9.0	39 8.34	4.8134	0.0154	52 53 11.6	3.408	0.690	73.2	221 222 223	52 1129
2619	8.9	39 12.48	4.7962	0.0152	52 36 50.8	3.414	0.688	76.2	461 462	52 1130
2620	8.9	39 16.58	4.7308	0.0143	51 32 24.4	3.420	0.678	71.0	24 26	51 1237
2621	8.8	6 39 27.40[1]	+4.7649	−0.0148	+ 52 6 38.0	−3.436	−0.683	78.2	631 640 642 643	52 1131
2622	7.6	39 36.72	4.8307	0.0158	53 10 5.5	3.449	0.692	74.2	285 286	53 1069
2623	8.6	39 46.26	4.9118	0.0170	54 24 6.4	3.463	0.704	74.2	283 284	54 1076
2624	8.4	39 49.24	4.8783	0.0165	53 54 14.4	3.467	0.699	75.1	377 378	53 1070
2625	8.0	39 51.32	4.6320	0.0133	49 49 38.6	3.470	0.664	71.2	36 37	49 1549
2626	9.2	6 40 2.74	+4.6969	−0.0142	+ 50 58 44.1	−3.486	−0.673	72.2	162 164	50 1353
2627	8.7	40 49.89	4.6550	0.0140	50 15 43.8	3.554	0.667	73.2	221 222 223	50 1356
2628	8.8	40 50.59	4.8263	0.0162	53 7 28.9	3.555	0.691	76.5	377 528 529	53 1075
2629	8.6	40 51.96	4.6828	0.0144	50 45 12.3	3.557	0.671	72.7	36 37 285 286	50 1355
2630	7.8	40 55.18	4.9208	0.0176	54 33 33.2	3.562	0.705	74.2	283 284	54 1077
2631	8.8	6 40 57.98	+4.7409	−0.0152	+ 51 44 47.6	−3.566	−0.679	71.0	24 26	51 1239
2632	9.0	41 3.12	4.7757	0.0156	52 19 16.3	3.573	0.684	76.2	461 462	52 1132
2633	8.7	41 10.29	4.7132	0.0148	51 17 1.8	3.583	0.675	82.0	5 obs. [2]	51 1242
2634	8.9	41 18.01	4.6826	0.0145	50 45 33.7	3.594	0.670	84.2	773 776 779	50 1357
2635	8.6	41 19.57	4.9057	0.0176	54 20 41.8	3.597	0.702	77.6	6 obs. [3]	54 1078
2636	8.4	6 41 41.90	+4.6775	−0.0146	+ 50 40 44.7	−3.629	−0.669	76.8	8 obs. [4]	50 1358
2637	8.9	41 51.10[5]	4.6846	0.0148	50 48 20.1	3.642	0.670	85.2	845 847	[50 1359]
2638	8.4	42 5.80	4.7627	0.0159	52 7 58.0	3.663	0.681	74.2	285 286	52 1136
2639	9.0	42 19.58	4.7468	0.0158	51 52 32.0	3.683	0.679	85.2	843 844	— —
2640	7.7	42 20.00	4.8936	0.0178	54 11 13.4	3.683	0.700	74.5	283 284 377	54 1079
2641	8.8	6 42 27.98	+4.7952	−0.0165	+ 52 40 5.5	−3.695	−0.686	76.2	461 462	52 1138
2642	8.4	42 36.40	4.6843	0.0150	50 49 4.5	3.707	0.670	71.2	36 37	50 1361
2643	9.4	42 50.93	4.8046	0.0168	52 49 38.6	3.728	0.687	74.2	285 286	52 1140
2644	8.7	42 51.00	4.6422	0.0146	50 4 47.4	3.728	0.664	73.2	221 222 223	50 1363
2645	8.7	42 53.08	4.8045	0.0168	52 49 33.6	3.731	0.687	74.2	285 286	52 1140
2646	9.2	6 42 57.54	+4.7374	−0.0159	+ 51 43 59.8	−3.737	−0.677	71.0	24 26	51 1246
2647	9.0	43 0.79	4.7256	0.0158	51 32 10.7	3.742	0.675	71.2	33 34	51 1247
2648	8.9	43 17.24	4.7922	0.0168	52 38 18.2	3.765	0.685	74.2	283 284	52 1141
2649	8.2	43 19.92	4.9506	0.0192	55 2 35.4	3.769	0.707	84.2	6 obs. [6]	55 1137
2650	9.2	43 35.26	4.7395	0.0162	51 46 53.8	3.791	0.677	72.2	165 166	51 1248

[1] $27^s.38$ [$27^s.81$] $27^s.43$ $27^s.39$

[2] Z. 34 780 781 844 846

[3] Z. 377 631 633 634 639 640

[4] Z. 36 37 221 222 223 771 776 779

[5] $51^s.33$ $50^s.86$

[6] Z. 770 771 773 779 780 781

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2651	7.3	$6^h\,43^m\,36^s.32$	+4ˢ.7325	−0ˢ.0161	+ 51°39′ 55″.7	−3″.793	−0″.676	75.9	6 obs. [1]	51° 1249
2652	8.4	43 40.02	4.7400	0.0162	51 47 32.9	3.798	0.677	71.7	33 34 165 166	51 1250
2653	9.2	43 54.56	4.7941	0.0171	52 41 1.3	3.819	0.685	73.2	221 222 223	52 1143
2654	8.6	44 2.95	4.7305	0.0162	51 38 33.9	3.831	0.675	84.6 84.4	5 obs. [2]	51 1251
2655	8.9	44 3.57	4.8481	0.0180	53 32 9.1	3.832	0.692	74.5	285 286 377	53 1081
2656	8.8	6 44 42.50	+4.9056	−0.0191	+ 54 25 10.2	−3.887	−0.700	74.2	283 284	54 1082
2657	7.4	44 53.46	4.6460	0.0154	50 11 45.5	3.903	0.663	71.2	36 37	50 1367
2658	8.9	44 54.78	4.9293	0.0196	54 46 17.8	3.905	0.703	74.6	281 282 377 378	54 1083
2659	8.4	45 29.45	4.6750	0.0160	50 43 28.7	3.954	0.667	74.7	165 166 528 529	50 1368
2660	9.4	45 46.80	4.7027	0.0165	51 12 45.0	3.979	0.670	71.2	33 34	51 1254
2661	8.7	6 45 57.63	+4.8490	−0.0188	+ 53 35 42.0	−3.995	−0.691	81.9	8 obs. [3]	53 1083
2662	8.8	46 4.91	4.7411	0.0172	51 52 7.3	4.005	0.676	72.1	160 162 164	51 1255
2663	9.0	46 11.07	4.9013	0.0197	54 23 31.0	4.014	0.699	77.5	281 282 781	54 1087
2664	9.0	46 13.38	4.7732	0.0178	52 24 2.9	4.017	0.680	73.2	221 222 223	52 1146
2665	9.6	46 34.43	4.9149	0.0201	54 36 6.4	4.047	0.700	80.6	5 obs. [4]	54 1088
2666	9.0	6 46 48.13	+4.6520	−0.0162	+ 50 21 2.2	−4.067	−0.663	74.5 72.4	6 obs. [5]	50 1370
2667	9.0	46 52.98	4.9268	0.0205	54 47 0.4	4.074	0.702	76.2	461 462	54 1089
2668	8.4	47 3.34	4.9030	0.0202	54 26 15.0	4.088	0.698	74.1	281 282	54 1090
2669	9.4	47 5.00	4.6409	0.0161	50 9 34.3	4.091	0.661	78.3	7 obs. [6]	50 1371
2670	8.8	47 8.61	4.6505	0.0163	50 19 58.7	4.096	0.662	84.6	770 771 843 844	50 1372
2671	8.0	6 47 9.94	+4.6978	−0.0170	+ 51 9 44.0	−4.098	−0.669	72.1	160 161	51 1258
2672	9.1	47 10.06	4.7454	0.0177	51 58 1.7	4.098	0.676	71.2	33 34	51 1257
2673	9.0	47 12.50	4.6410	0.0162	50 9 53.5	4.102	0.661	81.6	7 obs. [7]	50 1373
2674	8.8	47 26.46	4.8088	0.0188	53 0 15.6	4.122	0.685	74.2	285 286	53 1085
2675	9.1	47 32.57	4.6361	0.0162	50 5 4.5	4.130	0.660	71.7	36 37 162 164	50 1375
2676	9.0	6 47 43.41	+4.7726	−0.0184	+ 52 25 43.2	−4.146	−0.679	73.2	224 225	52 1149
2677	8.8	48 3.16	4.9174	0.0209	54 40 30.7	4.174	0.700	74.5	6 obs. [8]	54 1092
2678	8.1	48 48.32	4.7470	0.0184	52 2 10.8	4.238	0.675	73.2	222 223	52 1150
2679	8.1	48 59.03	4.7154	0.0170	51 30 38.9	4.254	0.670	71.2	30 31	51 1260
2680	8.7	49 7.39	4.8881	0.0209	54 16 6.7	4.266	0.695	74.6	281 282 377 378	54 1093
2681	7.6	6 49 21.18	+4.6837	−0.0166	+ 50 58 33.2	−4.285	−0.665	71.5	5 obs. [9]	51 1261
2682	9.0	49 40.86	4.9289	0.0218	54 53 2.4	4.313	0.701	74.2	285 286	54 1095
2683	6.9	49 47.84	4.7883	0.0195	52 44 16.6	4.323	0.680	73.2	222 223 224 225	52 1152
2684	8.8	50 14.43	4.9105	0.0218	54 37 47.6	4.361	0.697	74.6	281 282 377 378	54 1097
2685	8.8	50 27.54	4.9430	0.0224	55 6 32.5	4.380	0.701	84.6	770 771 843 844	55 1153
2686	7.1	6 50 58.56	+4.9364	−0.0226	+ 55 1 35.9	−4.424	−0.700	84.9	5 obs. [10]	55 1155
2687	9.0	51 8.14	4.8190	0.0206	53 15 41.2	4.437	0.683	74.2	285 286	53 1090
2688	9.0	51 13.96	4.7360	0.0192	51 55 7.6	4.446	0.673	71.9	5 obs. [11]	51 1264
2689	8.9	51 30.55	4.8914	0.0220	54 22 47.2	4.469	0.693	74.1	281 282	54 1098
2690	8.1	51 36.93	4.7358	0.0194	51 55 32.8	4.478	0.671	72.2 71.9	33 34 224 225α	51 1265
2691	9.8	6 51 38.83	+4.6967	−0.0187	+ 51 15 51.0	−4.481	−0.666	72.1	160 161	51 1266
2692	9.3	51 41.38	4.7130	0.0190	51 32 36.5	4.485	0.668	72.2	162 164	51 1267
2693	8.8	51 48.36	4.6328	0.0178	50 8 30.2	4.495	0.656	81.4	222 771 779 781	50 1380
2694	8.6	52 11.41	4.7054	0.0191	51 25 38.4	4.527	0.666	72.2	165 166	51 1268
2695	8.6	52 14.30	4.7292	0.0195	51 49 55.2	4.532	0.670	71.2	30 31	51 1269
2696	9.0	6 52 20.00	+4.8114	0.0210	+ 53 10 30.2	−4.540	−0.681	75.1	377 378	53 1092
2697	7.8	52 25.94	4.8356	0.0214	53 33 23.0	4.548	0.685	74.9	286 381 382	53 1093
2698	7.5	52 28.84	4.7235	0.0195	51 44 34.5	4.552	0.669	71.2	33 34	51 1270
2699	9.3	52 30.84	4.7090	0.0193	51 29 54.0	4.555	0.667	78.6	223 773	51 1271
2700	8.0	52 32.78	4.6244	0.0179	50 0 34.8	4.558	0.655	71.2	36 37	50 1381

[1] Z. 24 26 160 161 773 845
[2] Z. 776 779 781 847α 848
[3] Z. 285 286 770 771 773 776 843 846
[4] Z. 377 378 779 780 781
[5] Z. 36 37 221 222 223 844α
[6] Z. 224 225 283 284 773 776 845
[7] Z. 283 284 773 776 779 845 846
[8] Z. 281 282 283 284 377 378
[9] Z. 24 33 34 160 161
[10] Z. 773 840 842 844 845
[11] Z. 24 30 31 224 225

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2701	8.3	$6^h\,52^m\,37^s.62$	+4ˢ.6376	−0ˢ.0182	+ 50° 15′ 0″.7	−4″.565	−0″.656	74.2	224 225 461	50° 1382
2702	8.4	52 52.26	4.6695	0.0188	50 49 30.7	4.586	0.661	76.2	285 528 529	50 1383
2703	7.9	52 53.52	4.8784	0.0224	54 13 27.2	4.587	0.690	74.1	281 282	54 1100
2704	8.4	52 56.97	4.8866	0.0226	54 20 55.6	4.592	0.692	77.2	530 531	54 1101
2705	8.6	52 57.32	4.9359	0.0235	55 4 20.2	4.593	0.699	84.9	771 840 842 845 846	55 1159
2706	9.4	6 52 58.12	+4.8867	−0.0226	+ 54 20 59.8	−4.594	−0.692	77.2	530 531	54 1101
2707	8.9	53 6.45	4.6475	0.0185	50 26 32.0	4.606	0.658	75.2	380 383 384	50 1384
2708	8.9	53 8.12	4.6302	0.0182	50 7 53.0	4.608	0.655	80.2	462 773	50 1385
2709	9.4	53 9.38	4.8065	0.0212	53 7 13.3	4.610	0.680	75.1	377 378	53 1095
2710	8.3	53 12.68	4.7123	0.0196	51 34 30.2	4.614	0.667	71.1	24 26 30 31	51 1272
2711	9.0	6 53 33.38	+4.8369	−0.0220	+ 53 36 29.9	−4.644	−0.684	75.2	381 382	53 1096
2712	8.9	53 47.38	4.6396	0.0186	50 19 14.0	4.664	0.656	71.2	36 37	50 1387
2713	8.8	54 9.41	4.7199	0.0201	51 43 53.2	4.695	0.697	71.2	30 31	51 1274
2714	9.4	54 13.36	4.6910	0.0196	51 14 24.0	4.700	0.663	71.1	24 33 34	51 1275
2715	7.8	54 16.43	4.7040	0.0199	51 27 50.0	4.705	0.665	72.2	160 161 165 166	51 1276
2716	9.4	6 54 36.97	+4.6276	−0.0187	+ 50 7 45.3	−4.734	−0.654	71.8	36 162 164	50 1389
2717	9.0	54 37.10	4.7398	0.0207	52 4 42.7	4.734	0.700	75.6	38 222 223 842	52 1159
2718	8.8	54 58.26	4.7913	0.0217	52 55 48.2	4.764	0.677	73.2	224 225	52 1160
2719	8.8	55 1.42	4.7578	0.0212	52 23 20.6	4.769	0.672	84.1	770 771	52 1162
2720	9.0	55 25.35	4.7860	0.0218	52 51 33.0	4.803	0.676	75.2	380 383 384	52 1163
2721	9.4	6 55 27.48	+4.6828	−0.0200	+ 51 7 58.4	−4.806	−0.661	71.2	30 31	51 1279
2722	9.2	55 42.45	4.7359	0.0211	52 2 45.7	4.827	0.668	80.2 77.7	38 773 844α	52 1164
2723	...[1]	55 43.48	4.7906	0.0220	52 56 32.4	4.828	0.676	84.1	770 771 [2]	52 1165
2724	9.1	55 47.23	4.7389	0.0211	52 5 56.8	4.833	0.669	78.2	6 obs. [3]	52 1166
2725	8.7	56 8.94	4.8444	0.0232	53 48 2.3	4.864	0.683	75.0	286 377 378 381 382	53 1100
2726	9.0	6 56 9.25	+4.6613	−0.0199	+ 50 46 41.0	−4.865	−0.657	72.0	36 37 165 166 222	50 1390
2727	9.0	56 21.36	4.8873	0.0242	54 27 24.1	4.882	0.689	74.1	281 282	54 1105
2728	9.7	56 34.69	4.6094	0.0192	49 51 25.9	4.901	0.650	84.1	770 771 773	49 1588
2729	8.5	56 47.87	4.9010	0.0246	54 40 26.2	4.919	0.691	78.0	6 obs. [4]	54 1106
2730	8.8	56 55.42	4.8083	0.0229	53 15 35.4	4.930	0.678	75.0	286 377 378 381 382	53 1101
2731	8.7	6 56 58.86	+4.9070	−0.0248	+ 54 46 6.2	−4.935	−0.691	82.0	384 779 780 781	54 1107
2732	8.8	57 16.37	4.7058	0.0212	51 35 8.8	4.960	0.663	71.0	24 26	51 1280
2733	8.6	57 33.78	4.7289	0.0217	51 59 9.8	4.984	0.666	72.7	38 221 222 223	52 1170
2734	8.9	57 46.45	4.8328	0.0237	53 40 8.2	5.002	0.680	75.0	286 377 378 381 382	53 1102
2735	9.4	58 2.32	4.6944	0.0212	51 24 49.9	5.024	0.661	72.4	34 165 166 224 225	51 1281
2736	8.6	6 58 5.39	+4.6414	−0.0203	+ 50 29 4.2	−5.029	−0.653	72.2	36 37 226 227	50 1392
2737	8.3	58 20.46	4.8743	0.0248	54 19 21.5	5.050	0.686	76.2	461 462	54 1108
2738	8.8	58 24.88	4.7814	0.0230	52 52 32.7	5.056	0.673	72.7	38 221 222 223	52 1171
2739	8.1	58 44.55	4.7018	0.0217	51 33 50.1	5.084	0.661	71.0	24 26	51 1283
2740	8.7	58 51.58	4.8055	0.0237	53 16 31.0	5.094	0.676	75.0	286 377 378 381 382	53 1106
2741	8.7	6 58 58.20	+4.8438	−0.0245	+ 53 52 39.8	−5.103	−0.681	84.1	770 771	53 1107
2742	8.8	59 5.16	4.6102	0.0201	49 56 59.6	5.113	0.648	72.2	6 obs. [5]	49 1595
2743	8.0	59 8.15	4.8659	0.0250	54 13 12.6	5.117	0.684	74.2	283 284	54 1109
2744	8.7	59 23.94	4.8876	0.0256	54 33 15.9	5.140	0.687	75.6	380 383 384 461 462	54 1110
2745	8.6	59 36.20	4.7398	0.0227	52 13 55.8	5.157	0.666	72.7	38 221 226 227	52 1173
2746	8.4	7^h 0 7.80	+4.6633	−0.0215	+ 50 56 24.8	−5.201	−0.654	71.2	36 37	50 1395
2747	9.1	0 16.68	4.8292	0.0248	53 41 32.2	5.214	0.678	75.4	286 377 378 529	53 1110
2748	9.0	0 24.35	4.6042	0.0205	49 52 56.9	5.225	0.646	72.9	165 224 225	49 1597
2749	9.0	0 24.74	4.7374	0.0230	52 13 6.0	5.225	0.665	73.2	226 227	52 1177
2750	8.6	0 31.27	4.8136	0.0246	53 27 23.4	5.234	0.676	76.2	8 obs. [6]	53 1111

[1] Dupl. $7^m.5$ & $8^m.1$ med.

[2] Z. 226 Com. $43^s.53$ $34''.7$ (1873.2)

[3] Z. 224 225 461 462 844 846

[4] Z. 383 526 527 528 529 773

[5] Z. 36 37 162 164 224 225.

[6] Z. 380 381 382 383 384 527 633 634

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2751	9.2	7^h $0^m32^s.98$	+4ˢ.7017	−0ˢ.0224	+ 51°37′ 15″.8	−5″.237	−0″.660	71.1	24 30 31	51 1287
2752	8.6	0 35.10	4.8862	0.0261	54 34 12.2	5.240	0.686	75.2	283 284 461 462	54 1111
2753	9.4	0 45.44	4.6284	0.0210	50 20 11.7	5.254	0.649	73.2	221 223	50 1396
2754	8.0	0 46.12	4.7210	0.0228	51 57 19.1	5.255	0.663	71.2	33 54	51 1288
2755	8.7	0 46.45	4.6161	0.0208	50 6 53.2	5.256	0.647	71.7	36 37 162 164	50 1397
2756	9.0	7 0 59.67	+4.8081	−0.0247	+ 53 23 3.6	−5.274	−0.674	76.2	286 526 527	53 1112
2757	8.1	1 28.37	4.6141	0.0210	50 6 2.5	5.315	0.646	84.2	6 obs. [1]	50 1399
2758	9.2	1 31.98	4.6136	0.0211	50 5 35.4	5.320	0.646	84.2	780 781	— —
2759	9.1	1 35.63	4.8450	0.0257	53 58 46.1	5.325	0.679	75.2	283 284 461 462	54 1115
2760	8.4	1 39.31	4.8696	0.0262	54 21 19.0	5.330	0.682	75.2	377 378 381 382	54 1116
2761	8.6	7 1 43.95	+4.7527	−0.0239	+ 52 30 58.4	−5.337	−0.666	73.2	226 227	52 1179
2762	8.6	2 19.96	4.6966	0.0230	51 35 31.2	5.387	0.657	71.0	24 26	51 1292
2763	6.6	2 23.26	4.6064	0.0212	49 59 30.4	5.392	0.645	72.2	165 166	50 1401
2764	8.7	2 24.96	4.8519	0.0262	54 6 44.8	5.394	0.679	75.2	283 284 461 462	54 1118
2765	8.8	2 32.47	4.6358	0.0219	50 31 52.7	5.405	0.649	72.5	36 224 225	50 1402
2766	9.4	7 2 35.60	+4.7908	−0.0250	+ 53 9 47.5	−5.409	−0.670	75.0	6 obs. [2]	53 1114
2767	9.2	2 45.54	4.7958	0.0252	53 14 55.7	5.423	0.671	75.2	381 382	53 1115
2768	6.4	3 0.50	4.8894	0.0273	54 41 50.8	5.444	0.684	74.2	283 284	54 1119
2769	9.2	3 22.44	4.5960	0.0214	49 50 2.0	5.475	0.642	84.2	773 776	49 1601
2770	8.8	3 33.13	4.7705	0.0250	52 52 2.4	5.490	0.667	73.2	221 223 226 227	52 1180
2771	6.2	7 3 38.38	+4.6964	−0.0235	+ 51 38 0.2	−5.497	−0.656	71.0	24 26	51 1295
2772	8.6	3 43.16	4.6120	0.0218	50 8 26.4	5.504	0.644	71.2	36 37	50 1404
2773	9.2	3 47.36	4.7758	0.0252	52 57 45.7	5.510	0.667	74.9	286 383 384	52 1181
2774	8.2	4 0.93	4.6461	0.0226	50 45 57.2	5.529	0.649	82.2 82.4	6 obs. [3]	50 1405
2775	9.5	4 2.96	4.9111	0.0282	55 3 7.6	5.532	0.686	84.9 84.8	7 obs. [4]	55 1177
2776	9.4	7 4 7.15	+4.7317	−0.0244	+ 52 14 53.3	−5.538	−0.661	77.0	465 526 527 528 529	52 1182
2777	9.0	4 9.90	4.8510	0.0270	54 9 27.8	5.542	0.678	74.2	283 284	54 1124
2778	8.2	4 18.00	4.6918	0.0237	51 34 40.8	5.553	0.655	71.2	30 31	51 1298
2779	9.2	4 19.22	4.7783	0.0255	53 1 13.0	5.555	0.667	75.1	377 378	53 1119
2780	8.2	4 41.71	4.8264	0.0267	53 47 44.6	5.586	0.674	77.8 78.2	7 obs. [5]	53 1121
2781	9.1	7 4 42.49	+4.8277	−0.0267	+ 53 49 1.4	−5.587	−0.674	77.5 76.4	7 obs. [6]	53 1122
2782	9.2	4 45.51	4.8959	0.0282	54 51 8.5	5.591	0.683	77.2	530 531	54 1126
2783	9.8	4 50.51	4.6571	0.0232	50 59 27.9	5.598	0.650	71.9	33 165 166	51 1300
2784	8.1 [7]	4 55.12	4.7606	0.0254	52 45 16.6	5.605	0.664	72.2	38 223 [8]	52 1184
2785	9.2	5 12.14	4.6339	0.0228	50 35 23.7	5.629	0.646	71.2	36 37	[50 1406]
2786	9.0	7 5 14.25	+4.8305	−0.0270	+ 53 52 43.9	−5.632	−0.674	75.2	378 381 382	53 1123
2787	9.1	5 40.19	4.7197	0.0248	52 6 4.8	5.668	0.658	73.0	38 225 226 227 286	52 1185
2788	7.1	5 47.04	4.6936	0.0243	51 39 40.0	5.678	0.654	79.8	26 773 776	51 1303
2789	8.8	6 6.50	4.5999	0.0225	50 0 13.8	5.705	0.641	74.2	36 37 526 527	50 1407
2790	8.8	6 28.10	4.9084	0.0293	55 5 46.1	5.735	0.683	84.2	773 776	55 1181
2791	8.6	7 6 31.36	+4.6157	−0.0230	+ 50 18 27.4	−5.740	−0.642	73.2	221 223	50 1408
2792	7.9	6 46.87	4.7263	0.0254	52 15 7.9	5.761	0.658	73.2	38 224 225 286 288	52 1186
2793	8.4	6 54.24	4.8670	0.0286	54 29 45.1	5.771	0.677	74.7	283 284 381 382	54 1128
2794	9.0	7 17.90	4.6693	0.0244	51 17 40.3	5.804	0.649	82.5	6 obs. [9]	51 1306
2795	6.3	7 44.79	4.7300	0.0259	52 20 56.3	5.842	0.657	73.7	221 223 283 284	52 1188
2796	8.1	7 7 59.92	+4.7010	−0.0254	+ 51 52 11.9	−5.863	−0.653	71.9	33 165 166	51 1307
2797	9.0	8 0.63	4.7192	0.0258	52 10 42.9	5.864	0.656	74.4	224 225 380 383 384	52 1189
2798	9.2	8 17.92	4.7088	0.0256	52 0 47.1	5.888	0.654	81.8	8 obs. [10]	52 1190
2799	8.8	8 24.80	4.8016	0.0278	53 32 21.0	5.898	0.667	74.7	286 288 381 382	53 1128
2800	9.3	8 39.66	4.6109	0.0237	50 18 2.0	5.919	0.640	74.2	36 37 526 527	50 1410

[1] Z. 773 776 779 780 781 784

[2] Z. 286 377 378 380 383 384

[3] Z. 225 779 780α 781 846 847δ

[4] Z. 773 776 844α 845 846 849δ 850α

[5] Z. 380 381 382 383α 384 780 781

[6] Z. 286 384 526 527 528 529 780α

[7] Dupl. maj.

[8] Z. 221 283 284 med. 55ˢ.13 17″.5 magns. 9.2 7.5 (1873.9)

[9] Z. 26 773 776 845 849 850

[10] Z. 226 227 773 776 779 844 846 849

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2801	8.4	$7^h\ 8^m 42^s.10$	+4ˢ.6341	−0ˢ.0242	+ 50°43′25″.5	−5″.922	−0″.643	73.2	221 223	50° 1411
2802	7.7	9 37.23	4.6886	0.0257	51 43 2.7	5.999	0.650	75.2	33 526 527	51 1309
2803	8.2	9 40.90	4.9039	0.0308	55 8 45.0	6.004	0.680	84.9	7 obs. [1]	55 1185
2804	8.2	9 41.73	4.7162	0.0264	52 11 29.2	6.005	0.654	73.6	7 obs. [2]	52 1192
2805	8.7	9 41.86	4.9042	0.0308	55 9 5.1	6.005	0.680	85.0	776 844 845 846 848	55 1185
2806	8.8	7 9 57.74	+4.8442	−0.0294	+ 54 15 36.4	−6.027	−0.671	74.7	283 284 381 382	54 1130
2807	8.4	9 58.12	4.5853	0.0236	49 52 38.1	6.028	0.635	73.6	36 37 380 383 384	49 1615
2808	8.9	9 59.22	4.5941	0.0238	50 2 32.7	6.029	0.636	72.7	165 166 224 225	50 1413
2809	9.0	10 52.28	4.7052	0.0266	52 2 56.4	6.103	0.651	73.8	221 223 286 288 289	52 1194
2810	9.0	11 5.92	4.6508	0.0255	51 6 45.8	6.122	0.643	71.2	33 34	51 1311
2811	7.9	7 11 6.25	+4.7311	−0.0273	+ 52 29 43.2	−6.122	−0.654	73.2	226 227	52 1195
2812	9.2	11 14.83	4.8735	0.0308	54 45. 10.8	6.134	0.674	74.2	283 284	54 1133
2813	9.4	11 45.58	4.6013	0.0246	50 14 38.6	6.177	0.636	71.2	36 37	50 1417
2814	9.1	11 47.46	4.7933	0.0291	53 32 4.9	6.180	0.662	75.2	380 381 382 383 384	53 1133
2815	8.7	11 50.54	4.7287	0.0276	52 28 58.9	6.184	0.653	75.2	283 284 530	52 1196
2816	8.5	7 12 6.72	+4.6578	−0.0260	+ 51 16 39.6	−6.206	−0.643	71.2	33 34	51 1313
2817	8.3	12 14.63	4.7121	0.0273	52 13 13.5	6.217	0.651	72.5	38 226 227	52 1197
2818	8.8	12 16.43	4.5876	0.0245	50 0 44.0	6.220	0.634	80.5	224 773 776	50 1418
2819	9.1	12 19.56	4.7297	0.0278	52 31 10.4	6.224	0.653	77.8	465 633 634 640 641	52 1198
2820	8.8	12 32.64	4.6701	0.0266	51 30 34.4	6.242	0.645	72.2	165 166	51 1314
2821	8.9	7 12 39.24	+4.7132	−0.0275	+ 52 15 15.4	−6.251	−0.650	78.2	637 638 642 643	52 1199
2822	7.5	12 40.29	4.6067	0.0251	50 22 48.1	6.253	0.636	71.2	36 37	} 50 1420
2823	7.5	12 41.72	4.6067	0.0251	50 22 52.8	6.255	0.636	71.2	36 37	
2824	9.6	12 44.12	4.7815	0.0292	53 22 59.2	6.258	0.660	75.2	380 381 382 383 384	53 1137
2825	7.8	12 45.52	4.7622	0.0287	53 4 19.4	6.260	0.657	76.2	463 464	53 1138
2826	8.8	7 13 15.66	+4.5840	−0.0248	+ 49 59 1.2	−6.302	−0.632	80.5	224 773 776	50 1422
2827	8.2	13 26.94	4.7266	0.0282	52 30 43.5	6.318	0.651	73.2	226 227	52 1200
2828	8.1	13 39.42	4.8393	0.0310	54 19 37.4	6.335	0.667	75.8	288 289 465 530 531	54 1137
2829	8.6	14 9.68	4.8676	0.0320	54 46 38.8	6.377	0.670	74.2	283 284	54 1138
2830	9.0	14 15.92	4.8066	0.0305	53 50 36.2	6.385	0.662	75.5	7 obs. [3]	53 1139
2831	9.4	7 14 33.70	+4.8079	−0.0306	+ 53 52 31.6	−6.410	−0.662	84.2	773 776	53 1140
2832	8.4	14 45.50	4.7494	0.0293	52 56 33.0	6.426	0.653	73.7	38 465	52 1203
2833	8.8	14 50.42	4.8751	0.0325	54 55 1.0	6.433	0.671	76.4	289 530 531 532	54 1142
2834	8.2	15 2.62	4.7303	0.0290	52 38 17.9	6.450	0.650	73.2	226 227	52 1204
2835	8.9	15 4.76	4.5880	0.0256	50 8 5.5	6.453	0.631	72.2	36 37 224 225	50 1426
2836	6.0	7 15 11.98	+4.6996	−0.0283	+ 52 7 36.8	−6.463	−0.646	74.2	283 284	52 1205
2837	8.5	15 48.31	4.5737	0.0255	49 53 47.8	6.513	0.628	72.2	165 166	49 1621
2838	9.1	16 3.78	4.7752	0.0305	53 24 54.8	6.534	0.656	74.8	287 289 380 383 384	53 1141
2839	8.9	16 7.57	4.7461	0.0298	52 56 43.2	6.539	0.652	73.2	6 obs. [4]	52 1208
2840	8.6	16 35.00	4.6094	0.0266	50 35 27.6	6.577	0.632	71.2	36 37	50 1428
2841	8.8	7 16 50.60	+4.7489	−0.0302	+ 53 1 17.4	−6.599	−0.651	75.5	289 463 464	53 1143
2842	8.3	17 8.13	4.7748	0.0310	53 27 16.5	6.623	0.654	75.2	380 381 382 383 384	53 1144
2843	9.1	17 18.08	4.7491	0.0304	53 2 38.2	6.637	0.651	76.9	465 530 531	53 1145
2844	8.9	17 53.07	4.7915	0.0317	53 45 11.7	6.685	0.656	75.5	289 463 464	53 1146
2845	9.0	17 57.79	4.7565	0.0308	53 11 30.8	6.691	0.651	75.2	380 381 382 383 384	53 1147
2846	8.4	7 18 3.11	+4.7214	−0.0300	+ 52 36 54.9	−6.698	−0.646	73.2 73.0	38 226 227 283α 284	52 1212
2847	9.1	18 15.67	4.5693	0.0263	49 55 14.2	6.716	0.626	71.9	36 165 166	49 1625
2848	8.6	18 46.79	4.6312	0.0280	51 4 56.2	6.758	0.633	71.8	30 34 224	51 1320
2849	8.4	18 47.49	4.7703	0.0316	53 27 4.7	6.760	0.652	74.9	289 381 382	53 1149
2850	8.6	19 8.70	4.6056	0.0275	50 37 58.5	6.789	0.629	71.2	36 37	50 1431

[1] Z. 773 776 844 845 846 847 848 [2] Z. 221 223 226 227 286 288 289 [3] Z. 380 381 382 383 384 463 464
[4] Z. 38 224 226 227 283 284

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2851	9.2	$7^h\ 19^m\ 14^s.61$	+4ˢ.8251	−0ˢ.0332	+ 54°20′ 16″.8	−6″.797	−0″.659	74.7	283 284 463 464	54° 1147
2852	9.0	19 27.29	4.6250	0.0281	51 0 1.1	6.814	0.632	80.5	224 773 775	51 1321
2853	8.5	19 30.56	4.5900	0.0273	50 21 43.3	6.819	0.627	75.2	383 384	50 1432
2854	9.0	19 37.97	4.5654	0.0267	49 54 25.2	6.829	0.623	76.9	465 530 531	49 1627
2855	9.3	20 5.91	4.6283	0.0285	51 5 14.0	6.867	0.631	71.2	30 33 34	51 1322
2856	9.2	7 20 7.03	+4.6198	−0.0283	+ 50 56 8.4	−6.868	−0.631	78.1	5 obs. [1]	50 1434
2857	9.0	20 7.22	4.5805	0.0273	50 12 45.0	6.869	0.625	76.2	37 226 769	50 1433
2858	8.7	20 13.27	4.6734	0.0297	51 53 29.6	6.877	0.639	72.2	165 166	51 1323
2859	9.0	20 25.33	4.7471	0.0316	53 8 40.6	6.894	0.647	74.9	289 381 382	53 1152
2860	9.1	20 25.78	4.5807	0.0274	50 13 45.3	6.894	0.624	73.2	226α 227	50 1435
2861	6.0	7 20 26.45	+4.5646	−0.0270	+ 49 55 41.7	−6.895	−0.622	80.5	224 779 781	49 1630
2862	9.0	20 27.18	4.5802	0.0274	50 13 18.2	6.896	0.624	77.6 77.2	8 obs. [2]	50 1435
2863	7.9	20 46.60	4.5800	0.0275	50 14 0.2	6.923	0.624	80.6 84.4	227α 779 781	50 1436
2864	9.0	21 3.33	4.6924	0.0305	52 15 23.6	6.946	0.639	80.9 80.4	10 obs. [3]	52 1216
2865	7.5	21 9.60	4.5770	0.0276	50 11 40.3	6.954	0.623	75.2	383 384	50 1437
2866	7.2	7 21 12.96	+4.6919	−0.0305	+ 52 15 16.7	− 6.959	−0.639	80.3	8 obs. [4]	52 1217
2867	8.8	21 23.52	4.8479	0.0348	54 46 47.6	6.973	0.660	74.2	283 284	54 1148
2868	9.4	21 25.80	4.6165	0.0287	50 56 1.5	6.976	0.628	75.4	37 465 530 531	50 1438
2869	9.4	21 27.43	4.6904	0.0306	52 14 21.6	6.978	0.638	78.2	640 641	52 1218
2870	8.1	21 33.30	4.5820	0.0278	50 18 20.0	6.987	0.623	80.5	224 773 775	50 1439
2871	8.2	7 21 40.48	+4.7285	−0.0317	+ 52 53 35.4	−6.996	−0.643	72.5	38 226 227	52 1219
2872	8.2	21 45.18	4.6633	0.0300	51 47 1.5	7.003	0.634	71.2	30 33 34	51 1324
2873	9.1	21 52.46	4.7902	0.0334	53 54 16.9	7.013	0.651	74.9	289 381 382	53 1157
2874	8.8	22 5.48	4.8581	0.0354	54 57 52.6	7.031	0.660	76.2	463 464	54 1149
2875	9.4	22 13.48	4.7868	0.0335	53 51 59.4	7.042	0.651	75.2	383 384	53 1158
2876	8.2	7 22 24.10	+4.5855	−0.0283	+ 50 24 36.3	−7.056	−0.623	81.2	7 obs. [5]	50 1441
2877	8.9	22 39.51	4.7562	0.0329	53 23 38.5	7.077	0.646	76.9	465 530 531	53 1159
2878	9.4	22 42.50	4.7577	0.0329	53 25 9.5	7.081	0.646	77.2	528 529 530 531	[53 1160]
2879	9.0	22 47.97	4.7260	0.0321	52 54 7.6	7.089	0.642	72.2	38 224	52 1220
2880	9.1	22 48.94	4.7468	0.0327	53 14 50.0	7.090	0.644	74.9	289 381 382	53 1161
2881	9.0	7 22 58.88	+4.7934	−0.0340	+ 54 0 17.2	−7.104	−0.650	74.2	283 284	54 1150
2882	9.1	23 3.87	4.8470	0.0356	54 50 26.4	7.110	0.658	77.9	5 obs. [6]	54 1151
2883	9.0	23 13.31	4.8167	0.0348	54 22 53.4	7.123	0.654	76.2	463 464	54 1152
2884	8.8	23 55.51	4.5825	0.0288	50 25 29.2	7.181	0.621	78.8	9 obs. [7]	50 1445
2885	8.4	24 11.55	4.8298	0.0356	54 37 37.8	7.202	0.654	76.2	463 464 465 466	54 1154
2886	6.9	7 24 13.64	+4.6452	−0.0305	+ 51 34 42.8	−7.205	−0.629	71.7	30 31 165 166	51 1327
2887	8.6	24 22.23	4.7799	0.0343	53 51 13.6	7.217	0.647	75.5	6 obs. [8]	53 1164
2888	8.4	24 48.40	4.6793	0.0317	52 12 11.0	7.253	0.633	72.2	38 224	52 1223
2889	8.1	25 0.80	4.6565	0.0311	51 48 52.7	7.270	0.630	71.2	30 33 34	51 1328
2890	9.2	25 34.30	4.8241	0.0361	54 36 13.8	7.315	0.652	74.9	287 289 465	54 1155
2891	8.5	7 25 49.64	+4.8355	−0.0365	+ 54 47 23.2	−7.336	−0.653	75.2	381 382	54 1157
2892	8.3	25 49.76	4.6924	0.0324	52 28 30.0	7.336	0.634	72.5	38 224 225	52 1224
2893	9.2	25 57.12	4.6872	0.0324	52 23 33.8	7.346	0.633	73.2	226 227	52 1225
2894	9.2	26 23.29	4.6706	0.0321	52 7 33.8	7.382	0.630	73.2	226 227	52 1226
2895	7.9	27 6.00	4.8231	0.0368	54 39 33.5	7.439	0.650	75.2	287 289 465 466	54 1159
2896	8.3	7 27 14.76	4.5928	−0.0303	+ 50 46 31.8	−7.451	−0.619	71.2	36 37	50 1449
2897	7.0	27 19.88	4.7876	0.0358	54 6 54.0	7.458	0.645	75.2	381 382	54 1160
2898	8.2	27 34.54	4.6877	0.0330	52 28 45.0	7.478	0.631	71.2	38 41	52 1227
2899	8.7	27 36.40	4.5977	0.0306	50 53 1.4	7.480	0.619	80.2	6 obs. [9]	50 1450
2900	9.1	27 47.92	4.7083	0.0338	52 50 23.6	7.496	0.634	78.7	224 225 779 781	52 1228

[1] Z. 633 634 636 637 638

[2] Z. 36 226α 227 383 384 770α 773 775

[3] Z. 38 633 634 640 641 769 848 849α 850 851

[4] Z. 528 529 633 634 640 784 785 848

[5] Z. 165 166 769 770 845 849 851

[6] Z. 532 633 634 635 636

[7] Z. 36 37 226 227 769 770 773 775 782

[8] Z. 287 289 381 382 528 529

[9] Z. 165 166 769 770 773 775

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2901	8.6	$7^h\,27^m\,58^s.77$	+4ˢ.7555	−0ˢ.0352	+ 53° 37′ 50″.0	−7″.511	−0″.640	75.2	287 289 463 464	53° 1167
2902	8.8	28 24.16	4.6706	0.0328	52 13 31.2	7.545	0.628	73.2	226 227	52 1229
2903	8.1	28 37.77	4.6780	0.0332	52 21 49.1	7.564	0.628	71.2	38 41	52 1230
2904	9.1	28 39.51	4.8288	0.0377	54 49 17.0	7.566	0.649	75.2	381 382	54 1164
2905	8.0	28 46.78	4.6654	0.0329	52 9 7.6	7.576	0.627	76.2	465 466	52 1231
2906	9.0	7 28 56.14	+4.5421	−0.0296	+ 49 54 19.9	−7.588	−0.610	72.5	36 224 225	49 1655
2907	9.0	29 14.20	4.6251	0.0320	51 27 43.6	7.613	0.621	71.2	30 33 34	51 1335
2908	6.6	29 17.40	4.7859	0.0367	54 10 53.1	7.617	0.642	77.2 77.5	465 466α 635 636	54 1167
2909	8.9	29 21.85	4.7558	0.0358	53 42 8.8	7.623	0.638	74.2	287 289	53 1169
2910	9.0	29 25.38	4.7473	0.0356	53 33 57.3	7.628	0.637	76.2	463 464	53 1170
2911	7.3	7 29 29.96	+4.7038	−0.0343	+ 52 50 49.5	−7.634	−0.631	80.9 82.3	8 obs. [1]	52 1232
2912	6.6	29 51.80	4.5876	0.0312	50 48 36.4	7.663	0.615	72.4	36 165 224 225	50 1452
2913	8.3	29 59.28	4.8190	0.0380	54 44 2.2	7.674	0.646	75.2	381 382	54 1168
2914	8.7	30 3.39	4.7086	0.0347	52 57 22.1	7.679	0.631	79.9	11 obs. [2]	53 1171
2915	9.0	30 17.80	4.7051	0.0347	52 54 35.0	7.698	0.630	79.2	226 850	52 1233
2916	8.6	7 30 22.76	+4.7933	−0.0374	+ 54 21 6.4	−7.705	−0.642	76.2	463 464	54 1169
2917	8.4	30 27.14	4.7597	0.0364	53 49 6.8	7.711	0.637	79.2	287 289 773 775	53 1173
2918	9.0	30 41.36	4.6202	0.0324	51 26 49.9	7.730	0.618	71.8	30 167 168	51 1338
2919	9.1	30 59.58	4.7063	0.0350	52 57 48.0	7.755	0.630	75.2	381 382	53 1175
2920	8.4	31 14.60[3]	4.8349	0.0391	55 2 24.5	7.775	0.647	84.7 84.5	779 781δ 849	55 1213
2921	8.1	7 31 25.56	+4.6950	−0.0349	+ 52 47 43.4	−7.790	−0.627	71.2	38 41	52 1235
2922	8.5	31 42.88	4.6336	0.0332	51 44 25.8	7.813	0.619	76.7	5 obs. [4]	51 1340
2923	7.2	31 47.15	4.8338	0.0393	55 3 2.4	7.819	0.646	84.9 84.7	781 848α 850	55 1214
2924	9.9	31 51.46	4.5406	0.0306	50 1 28.6	7.824	0.606	72.5	36 224 225	50 1456
2925	8.3	31 51.82	4.6050	0.0324	51 13 53.7	7.825	0.615	73.2	226 227	51 1342
2926	8.6	7 31 54.07	+4.7332	−0.0362	+ 53 27 33.4	−7.828	−0.632	74.2	287 289	53 1177
2927	8.8	32 13.66	4.8251	0.0392	54 56 19.0	7.854	0.644	79.6	381 382 769 770	54 1170
2928	8.9	32 28 52	4.6686	0.0346	52 23 40.0	7.874	0.623	71.2	38 41	52 1236
2929	8.0	32 42.86	4.6798	0.0350	52 36 1.4	7.893	0.624	73.2	226 227	52 1238
2930	8.5	32 42.93	4.5821	0.0321	50 51 16.4	7.893	0.611	73.2	224 225	50 1457
2931	8.6	7 32 56.09	+4.8199	−0.0394	+ 54 53 40.5	−7.911	−0.642	79.4	6 obs. [5]	54 1171
2932	8.7	32 57.24	4.6202	0.0333	51 33 53.4	7.912	0.616	71.8	30 167 168	51 1344
2933	8.2	33 10.66	4.5589	0.0316	50 26 37.8	7.930	0.607	71.2	36 37	50 1458
2934	8.6	34 15.86	4.6951	0.0361	52 56 36.7	8.018	0.624	79.8 79.2	8 obs. [6]	52 1242
2935	9.1	34 18.29	4.5859	0.0328	51 0 32.6	8.021	0.609	71.2	30 33 34	51 1345
2936	9.1	7 34 19.73	+4.7310	−0.0372	+ 53 32 51.3	−8.023	−0.629	74.9	287 381 382	53 1180
2937	9.2	34 34.20	4.6066	0.0335	51 24 8.6	8.042	0.612	72.2	167 168	51 1346
2938	4.9	34 35.74	4.5700	0.0325	50 43 37.8	8.044	0.607	72.2	36 37 226 227	50 1460
2939	9.4	34 36.62	4.6917	0.0361	52 54 13.5	8.046	0.623	80.5	225 779 781	52 1243
2940	8.3	35 35.22	4.5895	0.0334	51 8 40.3	8.124	0.608	72.2	30 31 224 225	51 1349
2941	9.4	7 35 59.89	+4.7062	−0.0372	+ 53 13 18.5	−8.157	−0.623	74.2	7 obs. [7]	53 1181
2942	8.6	36 28.94	4.5378	0.0322	50 13 6.8	8.195	0.600	71.2	36 37	50 1465
2943	7.2	36 42.25	4.5960	0.0340	51 19 25.4	8.213	0.608	71.2	30 31	51 1351
2944	8.9	37 2.80	4.5910	0.0340	51 15 1.7	8.240	0.607	78.1	634 635 636	51 1352
2945	8.7	37 49.36	4.5436	0.0329	50 24 19.4	8.302	0.599	71.9	36 37 226	50 1468
2946	9.0	7 38 2.36	+4.5802	−0.0341	+ 51 6 27.8	−8.320	−0.604	71.2	30 31	51 1356
2947	9.3	38 26.86	4.5475	0.0333	50 30 52.3	8.352	0.599	72.5	167 168 227	50 1470
2948	9.0	38 41.08	4.7124	0.0385	53 28 17.2	8.371	0.621	74.2	287 288 289	53 1189
2949	9.0	38 49.06	4.6594	0.0369	52 34 32.0	8.381	0.614	72.2	38 41 224 225	52 1248
2950	8.6	38 51.92	4.7421	0.0396	53 58 17.1	8.385	0.625	75.2	381 382	54 1175

[1] Z. 38 41α 769 770 773 775 779 781
[2] Z. 227 530 531 633 634 637 638 779 781 851 854
[3] Z. 14ˢ.65 [15ˢ.40] 14ˢ.56
[4] Z. 30 633 634 635 636
[5] Z. 287 381 382 773 775 850
[6] Z. 38 41 224 770α 773 775 849 853
[7] Z. 287 288 289 290α 291 381 382

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
2951	7.8	$7^h\,38^m\,58^s.16$	$+4^s.5225$	$-0^s.0327$	+ 50° 3′ 43″.2	$-8''.394$	$-0''.595$	71.2	36 37	50° 1472
2952	8.2	39 24.02	4.6718	0.0375	52 49 19.5	8.428	0.617	73.2	226 227	52 1249
2953	8.8	39 36.47	4.6261	0.0362	52 1 53.4	8.444	0.608	74.2	290 291	52 1251
2954	8.4	39 37.91	4.6309	0.0363	52 7 6.4	8.446	0.609	73.2	224 225	52 1252
2955	9.1	39 56.21	4.7324	0.0398	53 52 20.3	8.470	0.622	80.2	7 obs. [1]	53 1191
2956	8.6	7 39 59.36	+4.5800	−0.0348	+ 51 12 47.6	−8.474	−0.602	71.2	30 31	51 1358
2957	8.2	40 5.82	4.6757	0.0379	52 55 40.0	8.483	0.614	71.2	38 41	52 1254
2958	9.6	40 46.20	4.5929	0.0356	51 29 40.6	8.536	0.602	71.2	33 34	51 1361
2959	8.4	40 58.99	4.5602	0.0346	50 54 0.9	8.553	0.598	72.2	36 37 226 227	50 1475
2960	8.4	41 0.04	4.6023	0.0360	51 40 51.6	8.554	0.603	77.6	30 31 769 770	51 1362
2961	8.8	7 41 13.70	+4.7391	−0.0405	+ 54 3 12.3	−8.572	−0.621	74.2	288 289	54 1176
2962	6.4	41 14.32	4.7628	0.0414	54 26 19.0	8.573	0.624	74.7	290 291 381 382	54 1177
2963	7.6	41 22.86	4.8007	0.0428	55 2 39.8	8.585	0.629	84.2	773 775	55 1226
2964	8.4	41 25.34	4.5876	0.0357	51 26 4.7	8.588	0.601	73.2	224 225	51 1363
2965	8.8	41 47.30	4.5102	0.0334	49 59 8.2	8.617	0.590	71.9	36 167 168	50 1478
2966	8.4	7 42 33.61	+4.6120	−0.0369	+ 51 56 46.4	−8.678	−0.602	71.2	30 31	51 1364
2967	8.3	42 53.89	4.5048	0.0336	49 56 34.7	8.704	0.588	71.2	36 37	50 1480
2968	9.0	43 1.43	4.6271	0.0376	52 14 40.8	8.714	0.604	76.4	6 obs. [2]	52 1256
2969	8.9	43 8.38	4.5319	0.0345	50 29 10.9	8.724	0.591	72.2	167 168	50 1481
2970	9.2	43 8.64	4.6262	0.0376	52 14 5.2	8.724	0.604	78.9	226 227 769 849	52 1257
2971	9.4	7 43 14.89	+4.7244	−0.0410	+ 53 55 39.9	−8.732	−0.616	74.5	6 obs. [3]	53 1194
2972	9.6	43 31.70	4.5971	0.0368	51 43 57.2	8.754	0.599	71.2	33 34	51 1366
2973	9.2	43 42.60	4.5712	0.0360	51 15 55.4	8.768	0.596	71.2	30 31	51 1367
2974	8.0	43 49.14	4.5901	0.0367	51 37 18.6	8.777	0.598	73.2	224 225	51 1368
2975	8.6	43 53.88	4.5357	0.0350	50 36 18.6	8.783	0.591	71.2	36 37	50 1482
2976	7.9	7 44 6.00	+4.6722	−0.0395	+ 53 5 53.8	−8.799	−0.608	74.2	288 289	53 1195
2977	7.3	44 18.42	4.7896	0.0437	55 2 15.9	8.815	0.624	84.2	773 775 781 782	55 1230
2978	9.4	44 26.24	4.6749	0.0398	53 9 48.4	8.825	0.608	74.2	290 291	53 1196
2979	9.1	44 43.78	4.6819	0.0402	53 18 1.8	8.848	0.609	75.2	381 382	53 1197
2980	9.2	45 0.33	4.5563	0.0360	51 3 49.8	8.870	0.592	71.2	30 31	51 1370
2981	8.4	7 45 25.79	+4.5054	−0.0345	+ 50 6 25.6	−8.903	−0.585	77.6	9 obs. [4]	50 1485
2982	8.6	45 27.50	4.6100	0.0380	52 4 51.8	8.906	0.598	71.2	38 41	52 1260
2983	9.1	45 49.23	4.5031	0.0346	50 5 11.5	8.934	0.584	84.2	769 781 782	50 1487
2984	8.8	46 3.10	4.5945	0.0377	51 50 7.6	8.952	0.596	73.2	224 225	51 1372
2985	9.2	46 19.96	4.6774	0.0407	53 19 6.7	8.974	0.606	74.2	290 291	53 1199
2986	8.6	7 46 29.13	+4.7219	−0.0423	+ 54 4 34.7	−8.986	−0.612	74.2	288 289	54 1182
2987	8.8	46 43.04	4.5407	0.0362	50 52 18.6	9.004	0.588	71.2	36 37	50 1489
2988	9.0	46 52.65	4.5728	0.0373	51 29 11.0	9.017	0.592	71.2	30 31	51 1373
2989	8.2	47 28.73	4.4890	0.0348	49 54 34.4	9.064	0.580	73.2	36 381	49 1687
2990	8.4	47 55.20	4.7740	0.0449	55 0 10.2	9.098	0.616	84.2	773 775	55 1235
2991	8.8	7 48 30.88	+4.6641	−0.0412	+ 53 13 21.4	−9.144	−0.602	72.2	288 289	53 1200
2992	8.5	48 42.14	4.5772	0.0382	51 40 53.3	9.159	0.590	73.7	30 31 465 466	51 1375
2993	9.8	48 47.13	4.5683	0.0380	51 31 10.8 [5]	9.166	0.588	75.4 75.8	33 291α 633 634	51 1376
2994	8.7	48 50.13	4.4993	0.0356	50 12 0.7	9.169	0.580	74.2	36 37 530 531	50 1494
2995	...[6]	48 59.86	4.5187	0.0363	50 35 21.6	9.182	0.582	72.2	167 168	50 1495
2996	9.2	7 49 18.24	+4.7310	−0.0440	+ 54 23 45.4	−9.206	−0.609	76.2	463 464	54 1185
2997	8.7	49 33.76	4.5578	0.0379	51 22 22.0	9.226	0.586	77.8	6 obs. [7]	51 1377
2998	8.3	49 40.23	4.4783	0.0352	49 50 3.6	9.234	0.576	76.6	5 obs. [8]	49 1693
2999	8.9	49 50.64	4.7461	0.0447	54 40 26.2	9.248	0.615	76.2	465 466	54 1186
3000	7.8	49 59.47	4.5201	0.0368	50 40 44.1	9.259	0.581	75.2	385 386	50 1498

[1] Z. 287 381 382 769 770 773 775
[2] Z. 38 41 226 227 769 849
[3] Z. 288 289 290 291 381 382
[4] Z. 36 37 167 168 226 773 775 849 850
[5] 11″.4 [16″.2] 9″.9 11″.0
[6] Dupl. $9^m.3$ & $9^m.1$ med.
[7] Z. 530 531 633 634 640 641
[8] Z. 290 291 638 642 643

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3001	9.2	$7^h\,50^m\,0^s.37$	+4ˢ.5610	−0ˢ.0382	+ 51°27′41″.2	− 9″.260	−0″.586	71.2	31 33 34	51°1380
3002	8.6	50 8.19	4.6866	0.0427	53 42 28.1	9.271	0.602	78.4	288 530 531 850	53 1203
3003	9.3	50 10.94	4.6927	0.0429	53 48 54.0	9.274	0.603	84.8 84.6	769 845 848α	53 1204
3004	9.2	50 18.84	4.6915	0.0429	53 48 7.9	9.284	0.602	82.4	464 769 785 848	
3005	9.2	50 37.61 [1]	4.4758	0.0355	49 50 48.9	9.309	0.574	84.5 84.7	781 782 853δ 854	49 1695
3006	9.0	7 50 49.34	+4.6886	−0.0431	+ 53 47 5.8	− 9.324	−0.601	76.2	463 464	[53 1206]
3007	8.7	51 5.73	4.5332	0.0376	51 0 12.0	9.345	0.581	73.2	31 290 291	51 1381
3008	9.0	51 15.50	4.6617	0.0423	53 21 6.6	9.358	0.597	75.2	288 289 465 466	53 1207
3009	8.6	51 17.56	4.5892	0.0397	52 3 52.2	9.360	0.588	74.2	38 41 530 531	52 1268
3010	7.1	51 22.99	4.7480	0.0455	54 47 59.6	9.367	0.608	75.2	385 386	54 1188
3011	9.2	7 51 37.34	+4.5150	−0.0372	+ 50 41 5.5	− 9.386	−0.578	71.2	36 37	[50 1500]
3012	8.5	52 17.06	4.7543	0.0462	54 57 23.1	9.437	0.608	84.2	773 775	55 1240
3013	9.5	52 25.52	4.6671	0.0430	53 31 11.4	9.448	0.596	74.2	288 289	53 1208
3014	9.6	52 34.83	4.5831	0.0400	52 2 11.4	9.460	0.585	71.2	38 41	52 1269
3015	8.9	52 43.98	4.7445	0.0460	54 49 41.4	9.472	0.606	75.2	385 386	54 1189
3016	9.4	7 52 49.31	+4.5611	−0.0393	+ 51 38 40.5	− 9.478	−0.582	71.5	31 34 168	51 1383
3017	9.1	52 59.80	4.5930	0.0405	52 14 42.1	9.492	0.586	75.7	290 291 530 531	52 1270
3018	7.2	53 0.11	4.7217	0.0453	54 28 25.7	9.492	0.602	76.2	463 464	54 1190
3019	9.2	53 43.49	4.6813	0.0441	53 50 40.5	9.548	0.596	75.2	288 289 465 466	53 1210
3020	8.9	53 46.33	4.7207	0.0456	54 30 21.2	9.552	0.601	75.2	385 386	54 1193
3021	8.1	7 53 53.34	+4.6377	−0.0425	+ 53 6 9 4	− 9.560	−0.590	75.2	387 388	53 1211
3022	8.3	54 0.14	4.6632	0.0435	53 33 11.4	9.569	0.594	75.2	290 291 463 464	53 1212
3023	8.0	54 47.00	4.7529	0.0473	55 5 38.8	9.629	0.604	84.2	773 775	55 1242
3024	7.1	54 53.55	4.6875	0.0448	54 1 34.8	9.638	0.595	74.5	288 289 388	54 1195
3025	8.2	55 6.90	4.4926	0.0378	50 28 37.1	9.655	0.570	71.2	36 37	50 1503
3026	8.5	7 55 18.19	+4.5334	−0.0393	+ 51 17 2.3	− 9.669	−0.575	71.2	30 31 33	51 1384
3027	8.5	55 21.74	4.5078	0.0384	50 47 37.0	9.674	0.572	72.2	167 168	50 1504
3028	8.5	55 22.80	4.5988	0.0417	52 30 25.4	9.675	0.583	71.2	38 41	52 1272
3029	8.0	55 25.69	4.4971	0.0380	50 35 13.8	9.679	0.570	74.2	290 291	50 1505
3030	9.3	56 4.54	4.6188	0.0427	52 54 42.4	9.728	0.585	75.2	385 386	52 1273
3031	8.9	7 56 40.66	+4.6950	−0.0459	+ 54 16 5.6	− 9.774	−0.594	74.2	288 289	54 1196
3032	8.6	56 48.93	4.7319	0.0474	54 53 10.6	9.785	0.598	75.2	387 388	54 1197
3033	9.2	56 55.70	4.5918	0.0422	52 29 2.8	9.793	0.580	71.2	38 41	52 1277
3034	8.0	57 20.30	4.7047	0.0466	54 28 27.8	9.825	0.594	75.2	385 386	54 1200
3035	8.9	57 42.35	4.6551	0.0448	53 39 35.2	9.853	0.587	74.2	288 289	53 1217
3036	9.0	7 57 43.46	+4.5812	−0.0421	+ 52 20 34.8	− 9.854	−0.578	73.2	226 227	52 1278
3037	8.6	57 46.28	4.4720	0.0380	50 14 53.0	9.858	0.564	71.2	36 37	50 1508
3038	8.0	57 49.68	4.6693	0.0455	53 54 40.8	9.862	0.588	75.2	387 388	53 1218
3039	8.4	58 3.74	4.5954	0.0428	52 37 34.2	9.880	0.579	71.2	38 41	52 1279
3040	8.8	58 4.86	4.5216	0.0399	51 14 42.5	9.881	0.570	71.2	30 31	51 1386
3041	9.1	7 58 10.24	+4.4548	−0.0375	+ 49 55 37.2	− 9.888	−0.561	81.8	5 obs. [2]	49 1703
3042	9.2	58 40.10	4.5474	0.0412	51 46 45.0	9.926	0.572	74.2	290 291	51 1390
3043	7.3	58 46.05	4.4808	0.0387	50 29 38.6	9.934	0.563	73.2	36 37 385 386	50 1511
3044	**4.6**	**59 2.75**	**4.5505**	**0.0414**	**51 51 52.9**	**9.955**	**0.572**		**Fund. Cat.**	**51 1391**
3045	9.6	59 14.48	4.5677	0.0422	52 11 59.4	9.970	0.574	71.2	38 41	52 1280
3046	9.0	7 59 29.46	+4.4577	−0.0381	+ 50 4 40.5	− 9.989	−0.559	73.2	226 227	50 1513
3047	9.4	59 37.38	4.5380	0.0412	51 40 1.6	9.999	0.569	72.2	167 168	51 1392
3048	8.4	59 42.50	4.5382	0.0412	51 40 35.0	10.005	0.569	72.2	167 168	
3049	8.7	59 45.64	4.7045	0.0478	54 38 1.4	10.009	0.590	74.7	288 289 387 388	54 1202
3050	8.6	59 49.14	4.6677	0.0463	54 1 6.8	10.013	0.585	74.2	290 291	54 1203

[1] Z. 37ˢ.42 37ˢ.72 [31ˢ.62] 37ˢ.69 [2] Z. 167 769 773 775 781

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3051	8.2	$7^h\ 59^m\ 55^s.95$	+4ˢ.5176	−0ˢ.0405	+ 51° 17′ 49″.7	−10″.022	−0″.566	73.2	30 31 385 386	51° 1393
3052	9.0	59 58.92	4.5776	0.0428	52 25 57.6	10.026	0.574	71.2	38 41	52 1281
3053	8.8	8 0 38.78	4.6713	0.0468	54 8 11.6	10.076	0.586	79.4	8 obs. [1]	54 1206
3054	6.6	1 15.66	4.5768	0.0433	52 30 29.6	10.123	0.572	71.2	38 41	52 1282
3055	8.3	1 18.50	4.6961	0.0481	54 36 2.3	10.126	0.587	82.6	11 obs. [2]	54 1207
3056	6.6	8 1 32.23	+4.7138	−0.0490	+ 54 54 30.6	−10.143	−0.589	74.2	288 289	54 1208
3057	6.4	1 33.40	4.6372	0.0458	53 36 44.4	10.145	0.579	75.2	387 388	53 1221
3058	8.6	1 34.22	4.5561	0.0426	52 8 49.9	10.146	0.569	73.2	226 227	52 1283
3059	7.9	1 51.36	4.5683	0.0432	52 23 38.9	10.168	0.570	74.5	229 385 386	52 1284
3060	8.4	2 23.85	4.5524	0.0428	52 8 8.1	10.208	0.567	73.9	6 obs. [3]	52 1285
3061	9.0	8 2 41.00	+4.4401	−0.0386	+ 49 56 45.9	−10.230	−0.553	71.2	36 37	50 1516
3062	9.4	2 45.93	4.6927	0.0487	54 38 45.3	10.236	0 584	74.2	288 289 290 291	54 1210
3063	7.8	3 18.47	4 4590	0.0396	50 22 43.4	10.277	0.554	72.7	167 168 226 227	50 1517
3064	9.4	3 56.48	4.4620	0.0400	50 29 14.4	10.324	0.554	71.2	36 37	[50 1519]
3065	8.7	4 0.62	4.5462	0.0432	52 8 7.9	10.330	0.564	73.2	6 obs. [4]	52 1288
3066	9.3	8 4 1.54	+4.6287	−0.0466	+ 53 38 16.3	−10.331	−0.574	74.5	6 obs. [5]	53 1223
3067	9.2	4 49.38	4.4952	0.0416	51 12 54.5	10.390	0.556	71.2	30 31	51 1396
3068	9.2	5 20.78	4.5588	0.0443	52 28 11.5	10.430	0.564	73.2	38 41 387 388	52 1290
3069	8.6	5 22.06	4.6051	0.0462	53 18 59.3	10.431	0.569	74.7	288 289 385 386	53 1224
3070	9.1	5 40.80	4.5641	0.0447	52 35 36.1	10.454	0.564	73.2	228 229	52 1291
3071	8.6	8 5 49.68	+4.4540	−0.0404	+ 50 27 55.4	−10.466	−0.550	71.2	36 37	[50 1522]
3072	8.3	5 59.08	4.6209	0.0471	53 38 35.6	10.477	0.570	75.2	385 386	53 1225
3073	8.4	6 35.98	4.4859	0.0419	51 9 49.1	10.523	0.552	71.2	30 31	51 1399
3074	8.9	6 47.33	4.4350	0.0400	50 8 49.9	10.537	0.546	71.2	36 37	50 1524
3075	8.9	6 47.39	4.4351	0.0400	50 8 57.2	10.537	0.546	71.2	36 37	
3076	7.9	8 6 47.39	+4.5666	−0.0452	+ 52 43 13.9	−10.537	−0.562	75.6	6 obs. [6]	52 1292
3077	8.8	6 50.42	4.4414	0.0402	50 16 57.8	10.541	0.546	72.2	167 168	50 1525
3078	9.5	6 51.91	4.5570	0.0449	52 32 52.6	10.543	0.561	71.2	38 41	52 1293
3079	8.6	6 57.14	4.6635	0.0494	54 27 10.1	10.549	0.574	74.2	288 289	54 1213
3080	9.0	7 38.14	4.5645	0.0455	52 44 44.4	10.600	0.561	82.8	7 obs. [7]	52 1294
3081	8.3	8 7 52.24	+4.5943	−0.0468	+ 53 18 29.5	−10.617	−0.564	75.2	385 386 387 388	53 1226
3082	9.1	8 34.12	4.4450	0.0411	50 29 27.8	10.669	0.544	72.2	36 37 228 229	50 1527
3083	5.8	8 37.51	4.6606	0.0500	54 31 39.0	10.674	0.571	75.2	385 386	54 1215
3084	6.9	8 47.40	4.6848	0.0511	54 56 50.8	10.686	0.574	84.2	775 779 781	55 1265
3085	9.4	8 48.94	4.5184	0.0441	51 57 55.8	10.688	0.553	72.6	6 obs. [8]	52 1297
3086	9.0	8 9 4.32	+4.5116	−0.0439	+ 51 51 14.2	−10.706	−0.552	71.2	30 31	51 1402
3087	9.0	9 35.73	4.5638	0.0463	52 52 48.0	10.745	0.557	71.2	38 41	52 1298
3088	9.6	9 45.40	4.6537	0.0502	54 29 36.9	10.757	0.568	75.2	385 386	54 1216
3089	8.2	9 55.46	4.4083	0.0401	49 49 58.4	10.770	0.538	71.9	36 167 168	49 1723
3090	9.0	10 12.01	4.5011	0.0439	51 44 14.0	10.790	0.549	71.2	30 31	51 1404
3091	8.8	8 10 12.96	+4.5749	−0.0470	+ 53 7 55.2	−10.791	−0.558	75.2	387 388	53 1230
3092	8.8	10 25.61	4.4896	0.0435	51 31 44.3	10.807	0.547	74.7	228 229 465 466	51 1406
3093	8.1	10 30.87	4.4462	0.0418	50 39 51.9	10.813	0.542	73.9	37 385 386	50 1530
3094	7.9	10 36.39	4.5982	0.0482	53 35 6.3	10.820	0.560	76.2	463 464	53 1232
3095	9.3	10 39.88	4.5621	0.0467	52 55 53.2	10.824	0.556	82.5	7 obs. [9]	53 1233
3096	8.6	8 10 41.50	+4.4960	−0.0439	+ 51 40 29.0	−10.826	-0.547	71.7	43 169	51 1407
3097	8.6	10 43.42	4.5904	0.0479	53 27 8.4	10.828	0.559	75.2	387 388	53 1234
3098	7.0	10 56.69	4.6182	0.0492	53 57 58.5	10.845	0.562	77.8	532 637 638	54 1217
3099	9.0	11 2.12	4.4817	0.0435	51 25 18.6	10.851	0.545	73.2	228 229	51 1408
3100	8.5	11 4.08	4.4962	0.0441	51 42 35.5	10.854	0.547	75.0	30 31 170 855	51 1409

[1] Z. 288 289 387 388 769 781 784 785
[2] Z. 290 291 769 773 775 781 782 784 785 853 854
[3] Z. 38 41 385 386 387 388
[4] Z. 38 41 228 229 387 388
[5] Z. 288 289 290 291 385 386
[6] Z. 46 228 229 387 388 852
[7] Z. 38 769 775 781 849 854 855
[8] Z. 38 41 44 46 387 388
[9] Z. 640 643 769 775 779 781 782

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3101	9.3	$8^h 12^m 4^s.92$	+4.4902	−0.0442	+ 51°40′ 19.″3	−10.″928	−0.″544	79.0 79.7	9 obs. [1]	51° 1410
3102	9.0	12 32.46	4.5558	0.0472	52 57 40.7	10.962	0.552	76.2	463 464	53 1238
3103	9.0	12 40.16	4.4419	0.0425	50 44 52.6	10.971	0.537	71.2	36 37	50 1532
3104	9.0	12 48.60	4.6587	0.0519	54 48 36.6	10.982	0.564	75.2	385 386	54 1219
3105	9.1	13 18.25	4.5805	0.0486	53 28 28.3	11.018	0.554	78.1	637 638	53 1239
3106	8.0	8 13 19.74	+4.3975	−0.0409	+ 49 52 22.9	−11.020	−0.531	80.6	5 obs. [2]	49 1729
3107	9.2	13 19.80	4.4199	0.0418	50 20 46.1	11.020	0.534	74.2	228 229 387 388	50 1533
3108	9.2	13 22.31	4.5556	0.0476	53 1 18.9	11.023	0.550	78.2	640 644 645	53 1240
3109	8.8	13 22.73	4.5796	0.0486	53 27 51.6	11.023	0.553	77.8	532 637 638	53 1242
3110	9.0	13 25.14	4.5966	0.0493	53 46 23.8	11.026	0.555	78.2	642 643	53 1241
3111	9.2	8 13 30.50	+4.3941	−0.0408	+ 49 49 1.5	−11.033	−0.531	76.2	465 466	49 1730
3112	7.6	13 37.38	4.6660	0.0526	54 59 48.4	11.041	0.563	84.2	782 784 785	55 1273
3113	9.2	13 41.19	4.5519	0.0475	52 58 43.0	11.046	0.549	76.2	463 464	53 1243
3114	8.2	13 44.14	4.4673	0.0440	51 20 56.4	11.049	0.539	72.2	167 168	51 1413
3115	9.6	13 56.60	4.5137	0.0460	52 16 37.0	11.064	0.544	71.3	44 46	52 1301
3116	8.8	8 13 57.93	+4.4264	−0.0423	+ 50 31 56.2	−11.066	−0.534	75.2	385 386	50 1534
3117	8.4	14 9.51	4.5720	0.0486	53 23 15.6	11.080	0.551	78.0	532 640 642 643	53 1245
3118	8.6	14 17.96	4.4793	0.0447	51 37 56.9	11.091	0.540	72.5	43 228 229	51 1415
3119	9.0	14 19.11	4.4516	0.0435	51 4 47.4	11.092	0.536	75.2	387 388	51 1416
3120	5.8	14 19.89	4.5840	0.0492	53 37 12.2	11.093	0.553	78.2	637 638	53 1246
3121	8.6	8 14 30.87	+4.4940	−0.0454	+ 51 56 26.8	−11.106	−0.541	82.0	389 782 784 785	52 1303
3122	8.8	14 59.50	4.4243	0.0426	50 34 21.2	11.141	0.532	75.2	385 386	50 1535
3123	8.1	15 31.71	4.6531	0.0529	54 55 38.1	11.180	0.558	78.0	532 640 642 643	54 1222
3124	9.2	15 31.83	4.6310	0.0519	54 32 49.6	11.180	0.556	81.2	6 obs. [3]	54 1221
3125	7.0	15 36.78	4.6183	0.0514	54 19 54.5	11.186	0.554	78.2	637 638	54 1223
3126	9.0	8 15 45.93	+4.3994	−0.0419	+ 50 6 49.7	−11.197	−0.527	73.2	228 229	50 1537
3127	9.1	15 46.16	4.4286	0.0431	50 43 31.5	11.198	0.531	72.2	169 170	50 1536
3128	9.0	15 48.81	4.6220	0.0516	54 24 46.2	11.201	0.554	75.2	385 386	54 1224
3129	8.4	15 49.02	4.5545	0.0485	53 11 52.8	11.201	0.546	75.2	387 388	53 1247
3130	9.2	16 21.53	4.4650	0.0449	51 30 55.4	11.240	0.534	73.2	167 168 391	51 1418
3131	9.1	8 16 37.68	+4.5428	−0.0484	+ 53 2 40.6	−11.260	−0.543	75.2	387 388 389 390	53 1248
3132	8.9	17 12.64	4.5019	0.0468	52 18 47.3	11.302	0.537	71.3	44 46	52 1307
3133	7.4	17 29.70	4.5931	0.0510	54 2 9.7	11.322	0.548	75.2	385 386	54 1225
3134	9.1	17 39.69	4.5868	0.0508	53 56 16.7	11.334	0.547	78.8	5 obs. [4]	54 1226
3135	8.2	17 54.18	4.3844	0.0420	49 58 19.0	11.352	0.522	72.2	169 170	50 1538
3136	8.4	8 18 12.50	+4.4000	−0.0428	+ 50 19 47.6	−11.374	−0.524	73.2	228 229	50 1539
3137	7.6	18 27.06	4.5792	0.0508	53 51 54.6	11.391	0.545	75.2	387 388	53 1252
3138	8.8	18 31.55	4.4550	0.0453	51 29 46.7	11.397	0.530	79.8	5 obs. [5]	51 1421
3139	8.9	18 32.73	4.4460	0.0449	51 18 53.4	11.398	0.528	72.2	167 168	51 1422
3140	9.0	18 39.04	4.3924	0.0427	50 12 24.3	11.406	0.522	75.2	385 386	50 1540
3141	8.6	8 18 45.18	+4.6481	−0.0542	+ 55 6 2.4	−11.413	−0.552	84.7 84.2	785 854α	55 1277
3142	9.4	19 2.89[6]	4.6446	0.0542	55 3 50.8	11.434	0.551	84.5 84.2	782 784 854α	[55 1278]
3143	8.8	19 14.48	4.5613	0.0504	53 36 12.7	11.448	0.541	76.3	466 467 468	53 1253
3144	7.4	19 16.74	4.3848	0.0426	50 5 52.2	11.451	0.520	73.2	228 229	50 1542
3145	7.1	19 20.29	4.5979	0.0521	54 16 26.0	11.455	0.546	82.4	5 obs. [7]	54 1228
3146	8.7	8 19 20.40	+4.5940	−0.0519	+ 54 12 16.2	−11.455	−0.545	75.2	389 390	54 1227
3147	8.5	19 30.79	4.5476	0.0499	53 22 24.4	11.468	0.539	78.0	532 640 642 643	53 1255
3148	9.0	19 43.99	4.4778	0.0468	52 3 11.0	11.483	0.530	71.3	44 46	52 1312
3149	8.7	19 53.64	4.5998	0.0525	54 21 13.9	11.495	0.545	78.1	637 638	[54 1229]
3150	8.8	20 4.03	4.4052	0.0438	50 35 58.4	11.507	0.521	84.2	784 785	50 1543

[1] Z. 30 31 228α 229 769 779 781 782 849
[2] Z. 389 392 769 779 781
[3] Z. 389 391 769 775 779 781
[4] Z. 389 390 391 769 775
[5] Z. 43 391 769 779 781
[6] 3.″16 2.″84 2.″67
[7] Z. 391 769 779 781 782

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3151	8.6	$8^h\,20^m\,5^s.93$	+4ˢ.4169	−0ˢ.0443	+ 50°50′51″.4	−11″.510	−0″.522	75.2	385 386 387 388	50 1544
3152	8.7	20 19.30	4.4962	0.0479	52 27 49.5	11.526	0.532	80.5 79.3	467 468 786α 854	52 1313
3153	9.4	20 23.79	4.4595	0.0462	51 44 44.7	11.531	0.527	79.7	389 390 784 786	51 1424
3154	9.9	20 25.81	4.4398	0.0454	51 20 51.7	11.533	0.525	73.2	228 229	51 1425
3155	9.2	20 28.42	4.4595	0.0463	51 45 4.7	11.536	0.527	75.8	5 obs. [1]	51 1426
3156	8.6	8 20 32.73	+4.4524	−0.0460	+ 51 36 49.8	−11.542	−0.526	80.4	5 obs. [2]	51 1427
3157	8.8	20 35.62	4.4260	0.0448	51 4 44.0	11.545	0.523	74.9	291 387 388	51 1428
3158	6.4	21 3.48	4.6045	0.0532	54 31 58.8	11.578	0.543	75.2	385 386	54 1231
3159	9.4	21 6.26	4.4999	0.0484	52 36 5.6	11.582	0.531	71.3	44 46	52 1314
3160	8.6	21 34.02	4.6000	0.0533	54 29 47.8	11.615	0.542	75 2	389 390	54 1233
3161	8.0	8 21 37.19	+4.4039	−0.0443	+ 50 42 20.1	−11.618	−0.518	73.2	228 229	50 1546
3162	8.2	21 59.77	4.5453	0.0509	53 32 19.2	11.645	0.535	74.9	291 387 388	53 1258
3163	8.3	22 14.72	4.5681	0.0520	53 58 49.2	11.663	0.537	75.2	385 386 389 390	54 1238
3164	8.2	22 34.68	4.4200	0.0454	51 7 33.8	11.687	0.519	71.5	32 35 169	51 1430
3165	7.9	22 47.89	4.4151	0.0452	51 2 42.2	11.702	0.518	79.2 81.2	5 obs. [3]	51 1431
3166	9.8	8 22 55.26	+4.5729	−0.0526	+ 54 7 30.0	−11.711	−0.536	75.2	389 390	— —
3167	6.4	23 10.04	4.5398	0.0511	53 32 10.3	11.728	0.532	79.5	6 obs. [4]	53 1259
3168	9.4	23 19.42	4.4563	0.0473	51 56 0.0	11.740	0.522	80.5	229 779 781	51 1432
3169	9.0	23 38.60[5]	4.4181	0.0457	51 10 49.8	11.762	0.517	75.5 77.7	32 35 779 781δ	51 1433
3170	8.6	23 46.88	4.4130	0.0455	51 5 9.2	11.772	0.516	75.2	387 388	51 1434
3171	9.0	8 23 54.33	+4.4487	−0.0472	+ 51 49 50.5	−11.781	−0.520	74.2	291 292 293	51 1435
3172	9.0	24 20.01	4.5666	0.0529	54 7 51.0	11.811	0.533	84.2	769 779 781 782	54 1240
3173	8.8	24 23.66	4.4274	0.0464	51 26 22.4	11.816	0.517	73.7	169 170 385 386	51 1437
3174	9.2	24 25.82	4.3891	0.0447	50 38 23.0	11.818	0.512	73.2	228 229	50 1548
3175	9.1	24 40.90	4.4684	0.0484	52 17 42.7	11.836	0.521	73.2	44 46 389 390	52 1320
3176	9.3	8 25 52.04	+4.4629	−0.0486	+ 52 17 24.4	−11.919	−0.518	73.2	44 46 389 390	52 1321
3177	8.3	25 55.64	4.3949	0.0456	50 53 50.4	11.924	0.510	77.5	7 obs. [6]	50 1556
3178	9.3	25 55.90	4.4048	0.0460	51 6 29.0	11.924	0.511	73.2	32 35 385 386	51 1438
3179	7.8	25 57.81	4.4794	0.0495	52 37 34.6	11.926	0.520	74.2	290 291 292 293	52 1322
3180	8.3	26 8.46	4.3897	0.0454	50 48 25.4	11.939	0.509	81.2	169 782 784 785	50 1557
3181	7.9	8 26 21.32	+4.4581	−0.0534	+ 54 9 10.1	−11.954	−0.529	75.2	385 386 389 390	54 1244
3182	8.9	26 59.45	4.4749	0.0497	52 37 44.7	11.998	0.518	72.8	44 46 292 293	52 1324
3183	7.2	27 42.11	4.3372	0.0436	49 48 20.0	12.048	0.500	72.9	170 228 229	49 1750
3184	8.7	27 48.31	4.4921	0.0509	53 2 19.3	12.055	0.518	80.2	5 obs. [7]	53 1266
3185	9.4	28 13.55	4.5529	0.0540	54 13 23.0	12.085	0.525	75.2	385 386 389 390	54 1246
3186	9.0	8 28 16.79	+4.4958	−0.0513	+ 53 9 11.0	−12.088	−0.518	74.2	292 293	53 1267
3187	7.2	28 30.14	4.4597	0.0496	52 27 56.6	12.104	0.513	71.3	44 46	52 1325
3188	9.4	29 1.46	4.5900	0.0563	54 57 54.6	12.140	0.528	84.2	779 781	55 1287
3189	6.2	29 1.54	4.5280	0.0532	53 50 6.0	12.140	0.520	74.2	290 291	53 1268
3190	8.4	29 16.63	4.5441	0.0541	54 9 23.2	12.158	0.522	75.2	385 386	54 1247
3191	8.6	8 29 33.92	+4.4276	−0.0485	+ 51 54 49.0	−12.178	−0.508	71.2	32 35	51 1439
3192	7.0	29 42.06	4.4998	0.0521	53 21 37.4	12.187	0.516	74.2	292 293	53 1269
3193	8.8	29 42.35	4.3880	0.0467	51 5 56.0	12.188	0.503	71.9	43 169 170	51 1440
3194	9.2	29 47.34	4.5272	0.0535	53 53 20.3	12.194	0.519	75.2	389 390	53 1271
3195	**5.6**	**30 1.26**	**4.4873**	**0.0516**	**53 8 51.3**	**12.210**	**0.514**		**Fund. Cat.**	53 1272
3196	8.4	8 30 3.78	+4.4252	−0.0486	+ 51 54 39.8	−12.213	−0.507	71.2	32 35	51 1442
3197	9.6	30 6.21	4.5578	0.0552	54 28 59.0	12.215	0.522	75.2	385 386	54 1249
3198	9.5	30 19.90	4.4867	0.0517	53 9 51.5	12.231	0.513	80.8	5 obs. [8]	53 1273
3199	9.3	31 4.44	4.4362	0.0496	52 13 47.9	12.283	0.506	77.8 81.2	5 obs. [9]	} 52 1327
3200	9.3	31 4.74	4.4358	0.0495	52 13 23.9	12.283	0.506	84.7	779 854	

[1] Z. 169 170 389 390 786 [2] Z. 292 391 779 781 782 [3] Z. 43α 170 769 775 782
[4] Z. 291 387 388 769 775 782 [5] 38ˢ.55 38ˢ.57 38ˢ.67 [38ˢ.07] [6] Z. 43 170 228 229 779 781 782
[7] Z. 290 291 779 781 782 [8] Z. 389 467 779 781 782 [9] Z. 44α 46 779 781 854δ

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3201	8.2	8h 31m 11.s86	+4.s4338	−0.s0493	+ 52° 11′ 33.″8	−12.″291	−0.″508	79.4	5 obs. [1]	52° 1329
3202	9.0	31 21.44	4.5028	0.0530	53 34 11.5	12.302	0.513	75.2	385 386	53 1274
3203	9.3	31 30.21	4.3422	0.0453	50 16 27.9	12.312	0.494	73.6	7 obs. [2]	50 1566
3204	7.3	31 35.20	4.4162	0.0488	51 52 3.0	12.318	0.503	71.2	32 35	51 1443
3205	9.0	32 8.79	4.5290	0.0546	54 8 21.5	12.357	0.515	75.2	385 386	54 1250
3206	9.0	8 32 23.78	+4.4802	−0.0523	+ 53 13 52.3	−12.374	−0.509	74.2	290 291	53 1275
3207	8.8	32 29.95	4.4430	0.0505	52 30 9.6	12.381	0.504	72.0	5 obs. [3]	52 1330
3208	8.8	32 44.68	4.5066	0.0538	53 46 20.8	12.398	0.511	74.2	292 293	53 1276
3209	8.8	33 14.26	4.3722	0.0473	51 5 47.4	12.432	0.495	71.2	32 35	51 1446
3210	8.5	34 6.02	4.3382	0.0461	50 26 6.7	12.491	0.490	73.2	5 obs. [4]	50 1571
3211	8.9	8 34 32.81	+4.4013	−0.0493	+ 51 50 29.6	−12.521	−0.496	72.6	5 obs. [5]	51 1447
3212	8.4	34 58.31	4.4507	0.0519	52 53 35.6	12.550	0.502	71.2	38 41	52 1332
3213	8.8	36 23.99	4.4556	0.0528	53 7 48.4	12.648	0.499	74.7	290 291 385 386	53 1279
3214	8.4	36 38.30	4.5185	0.0562	54 22 2.4	12.664	0.506	74.2	292 293	54 1253
3215	9.2	36 43.51	4.3648	0.0484	51 16 42.4	12.670	0.488	71.2	32 35	51 1448
3216	8.8	8 37 22.90	+4.4695	−0.0540	+ 53 30 0.3	−12.714	−0.499	74.6	5 obs. [6]	53 1281
3217	8.7	37 22.90	4.3843	0.0496	51 45 42.3	12.714	0.489	72.4	5 obs. [7]	51 1451
3218	8.2	37 24.18	4.3253	0.0467	50 28 31.6	12.716	0.482	84.2	779 781	50 1573
3219	9.4	37 29.66	4.3950	0.0502	51 59 53.8	12.722	0.490	71.2	38 41	52 1335
3220	8.6	38 27.53	4.5351	0.0579	54 51 7.6	12.787	0.504	74.9	292 385 386	54 1254
3221	9.0	8 38 52.56	+4.4164	−0.0519	+ 52 34 54.8	−12.815	−0.490	71.2	38 41	52 1337
3222	8.5	39 2.58	4.3294	0.0475	50 44 2.3	12.826	0.480	73.2	228 229	50 1574
3223	9.0	39 16.54	4.3703	0.0497	51 39 13.2	12.842	0.484	71.2	32 35	51 1452
3224	8.4	39 27.36	4.4534	0.0540	53 23 13.4	12.854	0.493	74.2	292 293	53 1285
3225	8.0	39 54.55	4.2887	0.0459	49 53 47.8	12.884	0.474	73.7	228 229 290 291	49 1772
3226	9.0	8 40 0.81	+4.3628	−0.0496	+ 51 33 58.4	−12.892	−0.482	78.0	43 170 779 781	51 1453
3227	8.6	40 8.25	4.5107	0.0574	54 33 49.2	12.900	0.498	75.2	385 386	54 1258
3228	8.4	40 25.90	4.3410	0.0487	51 7 56.7	12.920	0.479	71.2	32 35	51 1454
3229	9.4	40 27.29	4.2874	0.0460	49 55 24.4	12.921	0.473	79.2	292 293 779 781	49 1774
3230	9.2	40 51.33	4.2853	0.0460	49 54 54.1	12.948	0.472	73.2	228 229	49 1775
3231	9.3	8 40 55.56	+4.4927	−0.0568	+ 54 18 4.6	−12.952	−0.495	75.2	385 386	54 1259
3232	8.0	41 51.87	4.2762	0.0460	49 48 26.0	13.015	0.469	73.5	228 229 292	49 1776
3233	9.0	42 38.68	4.4170	0.0535	52 58 42.9	13.067	0.483	74.7	290 291 385 386	53 1286
3234	9.2	42 52.44	4.3754	0.0514	52 7 55.4	13.082	0.478	71.2	38 41	52 1342
3235	8.7	43 9.72	4.3167	0.0485	50 52 30.7	13.101	0.471	73.2	228 229	50 1580
3236	8.0	8 43 47.07	+4.2934	−0.0476	+ 50 24 39.8	−13.142	−0.467	74.2	39 230 466 468	50 1582
3237	6.7	44 0.43	4.4042	0.0534	52 51 20.4	13.157	0.479	71.3	41 44 46	52 1343
3238	8.0	44 5.34	4.4710	0.0571	54 12 16.0	13.163	0.486	75.2	385 386	54 1260
3239	8.9	44 14.37	4.3103	0.0486	50 50 44.9	13.173	0.468	76.2 76.5	8 obs. [8]	50 1583
3240	9.2	44 29.00	4.3008	0.0482	50 39 21.0	13.189	0.467	73.2	228 229	50 1584
3241	9.2	8 44 31.27	+4.3572	−0.0511	+ 51 54 53.4	−13.191	−0.473	71.3	44 46	52 1345
3242	9.2	44 32.12	4.3083	0.0486	50 49 52.6	13.192	0.467	74.2	290 291 292 293	50 1585
3243	8.6	44 55.98	4.4966	0.0589	54 46 54.8	13.218	0.488	75.2	385 386	54 1261
3244	9.2	45 31.46	4.3432	0.0508	51 42 57.9	13.257	0.470	71.2	32 35	51 1458
3245	...[9]	45 47.92	4.2825	0.0478	50 22 28.6	13.275	0.462	84.2	779 781 [10]	50 1588
3246	7.6	8 45 47.96	+4.4229	−0.0552	+ 53 25 39.2	−13.275	−0.478	74.2	292 293	53 1290
3247	7.4	45 50.16	4.4148	0.0548	53 16 1.0	13.278	0.477	74.2	290 291	53 1291
3248	8.5	45 58.30	4.2970	0.0486	50 43 43.4	13.286	0.464	74.2	228 229 385 386	50 1589
3249	8.9	46 47.56	4.3620	0.0523	52 15 35.3	13.340	0.469	72.6	41 230 231	52 1348
3250	8.6	46 50.63	4.2749	0.0478	50 18 45.0	13.344	0.460	73.6	5 obs. [11]	50 1591

[1] Z. 38 41 781 856 857
[2] Z. 169 228 229 290 291 292 293
[3] Z. 38 44 46 228 229
[4] Z. 43 169 170 385 386
[5] Z. 32 35 228 229 292
[6] Z. 290 291 292 385 386
[7] Z. 43 169 170 228 229
[8] Z. 39 230 290 291 292 293α 779 781
[9] Dupl. 9m.2 & 9m.2 med.
[10] Z. 231 one component obs.: 9m.2 48s.12 25″.9 (1873.3)
[11] Z. 39 228 229 385 386

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3251	8.4	$8^h\,47^m\,5^s.12$	+4ˢ.4214	−0ˢ.0557	+ 53°31′59″.4	−13″.359	−0″.476	74.2	290 291	53° 1292
3252	9.0	47 26.42	4.4787	0.0591	54 42 7.8	13.382	0.481	74.2	292 293	54 1262
3253	8.1	48 17.76	4.3074	0.0500	51 13 10.6	13.438	0.460	71.2	32 35	51 1460
3254	9.5	48 54.64	4.3935	0.0550	53 9 23.4	13.478	0.468	74.2	290 291 292 293	53 1297
3255	8.4	48 59.28	4.3223	0.0511	51 37 53.8	13.483	0.461	78.2	171 172 779 781	51 1461
3256	8.6	8 49 0.34	+4.3349	−0.0518	+ 51 54 43.6	−13.484	−0.462	73.2	230 231	51 1462
3257	8.7	49 16.05	4.3736	0.0540	52 46 41.4	13.501	0.466	72.5	41 228 229	52 1351
3258	8.8	49 20.46	4.4625	0.0591	54 35 32.2	13.506	0.475	75.2	385 386	54 1263
3259	8.4	49 42.12	4.3576	0.0534	52 29 0.2	13.529	0.463	71.3	44 46	52 1352
3260	9.2	49 56.04	4.3041	0.0505	51 19 40.3	13.544	0.457	73.2	230 231	51 1464
3261	8.3	8 50 6.06	+4.4739	−0.0601	+ 54 53 41.5	−13.555	−0.475	77.6	292 293 778	54 1264
3262	9.0	50 12.01	4.4507	0.0588	54 27 11.8	13.561	0.472	75.2	389 390	54 1265
3263	8.5	50 30.19	4.3159	0.0514	51 39 21.0	13.581	0.457	72.8	171 172 228 229	51 1465
3264	7.8	50 47.87	4.4377	0.0583	54 15 43.8	13.600	0.470	75.2	385 386	54 1267
3265	8.8	50 59.48	4.2511	0.0481	50 12 39.9	13.612	0.449	72.2	39 43 230 231	50 1596
3266	9.0	8 51 9.18	+4.3125	−0.0515	+ 51 39 12.3	−13.623	−0.456	79.4	5 obs. [1]	51 1466
3267	8.2	51 11.39	4.4133	0.0571	53 48 52.0	13.625	0.466	74.2	290 291	53 1300
3268	9.0	51 13.15	4.4232	0.0577	54 1 4.4	13.627	0.468	75.2	389 390	54 1268
3269	8.4	51 51.54	4.2984	0.0510	51 24 51.3	13.668	0.453	73.2	228 229	51 1468
3270	9.0	52 3.32	4.3773	0.0555	53 9 53.1	13.680	0.461	75.2	387 388	53 1301
3271	9.0	8 52 8.53	+4.2530	−0.0487	+ 50 23 18.8	−13.686	−0.447	73.8	230 231 292 293	50 1598
3272	8.4	52 14.52	4.4173	0.0578	54 0 43.6	13.692	0.465	75.2	389 390	54 1270
3273	8.1	52 51.66	4.2428	0.0484	50 13 38.5	13.732	0.445	79.8	5 obs. [2]	50 1599
3274	8.5	52 52.32	4.2447	0.0485	50 16 29.0	13.733	0.445	73.2	230 231	50 1600
3275	9.7	53 19.57	4.3379	0.0539	52 27 41.8	13.762	0.454	73.2	41 292 293	52 1355
3276	8.3	8 53 22.48	+4.4614	−0.0610	+ 55 0 39.2	−13.765	−0.467	84.8	782 785 857 858	55 1308
3277	9.0	53 51.00	4.3465	0.0545	52 42 38.4	13.795	0.454	71.3	44 46	52 1357
3278	7.8	53 53.54	4.3495	0.0547	52 46 46.0	13.798	0.454	74.2	292 293	52 1358
3279	9.0	54 14.51	4.3697	0.0560	53 15 3.6	13.820	0.455	75.2	387 388	53 1304
3280	7.4	54 16.42	4.2448	0.0490	50 26 16.2	13.822	0.442	71.2	39 40	50 1601
3281	9.6	8 54 19.10	+4.2481	−0.0492	+ 50 31 22.4	−13.825	−0.443	84.2	786 788	50 1602
3282	9.4	54 24.25	4.3071	0.0526	51 54 8.2	13.830	0.449	72.3	171 172	51 1475
3283	9.2	54 28.17	4.2499	0.0494	50 35 3.2	13.834	0.443	72.8	5 obs. [3]	50 1603
3284	6.9	54 28.65	4.3850	0.0570	53 35 55.6	13.835	0.457	75.2	389 390	53 1305
3285	9.0	54 41.53	4.4567	0.0613	55 3 57.7	13.848	0.464	84.2	782 785	55 1310
3286	**6.0**	**8 54 50.21**	**+4.4410**	**−0.0605**	**+ 54 46 29.0**	**−13.858**	**−0.462**		**Fund. Cat.**	**54 1272**
3287	8.8	55 0.65	4.3131	0.0531	52 6 24.0	13.868	0.447	71.3	41 44 46	52 1359
3288	9.2	55 37.12	4.3185	0.0536	52 17 56.6	13.907	0.448	73.2	44 46 391 392	52 1360
3289	9.6	55 52.48	4.2113	0.0479	49 48 33.4	13.923	0.436	81.0	40 292 293 785	49 1799
3290	8.9	55 53.99	4.3846	0.0576	53 45 11.2	13.924	0.454	75.2	387 388	53 1307
3291	9.0	8 56 2.20	+4.2478	−0.0499	+ 50 43 7.8	−13.933	−0.440	73.2	230 231	50 1604
3292	7.2	56 30.44	4.2710	0.0514	51 19 14.0	13.963	0.441	71.2	32 35	51 1478
3293	9.0	56 40.96	4.4095	0.0595	54 21 22.4	13.974	0.455	79.7	292 293 389 390	54 1274
3294	8.3	56 44.08	4.2472	0.0501	50 47 8.0	13.977	0.438	72.3	171 172	50 1606
3295	8.1	56 52.24	4.2467	0.0502	50 47 24.0	13.986	0.438	71.8	39 40 171 172	50 1607
3296	9.0	8 57 13.55	+4.4135	−0.0600	+ 54 29 58.6	−14.008	−0.455	75.2	391 392	54 1275
3297	9.2	57 21.06	4.4279	0.0609	54 48 8.8	14.016	0.456	75.2	389 390	54 1276
3298	8.8	57 22.12	4.3759	0.0578	53 44 31.2	14.017	0.450	75.2	387 388	53 1308
3299	9.4	57 30.74	4.2718	0.0518	51 27 33.2	14.026	0.439	71.2	32 35	51 1480
3300	8.1	57 39.61	4.2147	0.0487	50 6 27.6	14.035	0.433	71.2	39 40	50 1608

[1] Z. 171 172 778 783 785 [2] Z. 228 229 782 783 785 [3] Z. 43 228 229 230 231

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3301	7.4	8h 57m 46.76	+4.3612	−0.0571	+ 53° 28′ 44.8	−14.042	−0.448	74.2	292 293	53 1309
3302	8.4	57 50.64	4.2559	0.0510	51 7 30.7	14.046	0.437	72.9	172 230 231	51 1482
3303	9.3	57 55.62	4.3366	0.0557	52 58 4.5	14.052	0.445	75.2	387 388 389	53 1310
3304	7.2	58 20.94	4.2966	0.0536	52 7 42.2	14.078	0.440	72.8	5 obs. [1]	52 1362
3305	9.2	58 42.02	4.2126	0.0490	50 10 52.3	14.100	0.431	71.2	39 40	[50 1610]
3306	8.6	8 59 8.08	+4.3669	−0.0580	+ 53 45 34.9	−14.127	−0.446	74.9	6 obs. [2]	53 1312
3307	8.4	59 24.74	4.3673	0.0582	53 48 8.6	14.144	0.445	75.2	387 388	53 1313
3308	4.6	9 0 2.60	4.2867	0.0537	52 6 26.4	14.183	0.436	72.8	5 obs. [3]	52 1365
3309	8.4	0 9.27	4.2515	0.0517	51 18 0.8	14.190	0.432	72.3	171 172	51 1485
3310	9.1	0 11.94	4.1906	0.0483	49 49 3.7	14.193	0.426	72.6	39 230 231	49 1808
3311	7.5	9 0 18.18	+4.1894	−0.0483	+ 49 48 1.1	−14.199	−0.425	79.9	43 782 788	49 1809
3312	9.4	0 25.62	4.2912	0.0541	52 15 20.4	14.207	0.436	74.2	292 293	52 1367
3313	9.5	0 46.72	4.3724	0.0592	54 4 18.5	14.229	0.443	78.2	6 obs. [4]	54 1280
3314	9.0	0 49.53	4.4174	0.0619	54 59 52.2	14.231	0.448	84.2	782 788	55 1317
3315	9.0	0 49.72	4.1936	0.0487	49 58 13.2	14.232	0.425	84.2	783 785	50 1612
3316	9.1	9 1 7.27	+4.4160	−0.0620	+ 55 0 20.5	−14.250	−0.447	84.3	788	55 1320
3317	9.0	1 7.60	4.2754	0.0535	51 58 40.5	14.250	0.433	71.3	44 46	52 1369
3318	8.3	1 11.02	4.2065	0.0496	50 20 13.4	14.253	0.425	71.2	39 40	50 1614
3319	8.7	1 15.11	4.2729	0.0534	51 56 9.2	14.258	0.432	74.0	5 obs. [5]	52 1370
3320	...[6]	1 23.86	4.3141	0.0559	52 53 24.3	14.267	0.436	84.2	782 785	52 1371
3321	9.3	9 1 49.49	+4.2544	−0.0526	+ 51 34 32.2	−14.293	−0.429	73.2	32 35 387 388	51 1486
3322	9.1	2 20.48	4.2618	0.0532	51 48 45.3	14.325	0.429	73.8	171 172 389 390	51 1487
3323	9.2	2 28.23	4.2154	0.0506	50 43 3.8	14.332	0.424	71.2	39 40	50 1617
3324	8.9	2 49.90	4.3219	0.0570	53 14 11.2	14.355	0.434	74.7	292 293 391 392	53 1315
3325	6.7	3 12.80	4.2211	0.0512	50 56 53.2	14.378	0.423	73.9	6 obs. [7]	51 1488
3326	8.9	9 3 25.72	+4.1973	−0.0500	+ 50 23 19.5	−14.391	−0.420	75.9	39 40 857	50 1618
3327	9.0	4 15.34	4.1885	0.0498	50 16 24.0	14.441	0.418	79.9	39 778 782	50 1621
3328	9.1	4 22.96	4.3265	0.0580	53 31 41.7	14.449	0.431	75.2	5 obs. [8]	53 1318
3329	9.0	4 33.18	4.3262	0.0581	53 32 40.3	14.459	0.431	74.9	6 obs. [9]	53 1319
3330	9.1	4 35.34	4.2604	0.0541	52 3 36.5	14.462	0.424	72.6	41 230 231	[52 1374]
3331	9.1	9 4 50.26	+4.1737	−0.0491	+ 49 58 17.8	−14.477	−0.415	72.3	171 172	50 1623
3332	9.0	5 21.28	4.3703	0.0612	54 35 1.6	14.508	0.434	75.2	389 391 392	54 1282
3333	8.0	5 50.75	4.3042	0.0573	53 13 13.0	14.538	0.426	74.7	292 293 387 388	53 1320
3334	9.1	5 52.56	4.2079	0.0515	50 57 50.2	14.539	0.416	71.2	32 35	51 1489
3335	8.2	5 52.67	4.3042	0.0573	53 13 23.9	14.539	0.426	74.7	292 293 387 388	53 1321
3336	8.2	9 6 8.64	+4.3384	−0.0596	+ 54 0 28.6	−14.556	−0.429	75.2	391 392	54 1283
3337	9.3	6 46.20	4.3729	0.0621	54 48 51.9	14.593	0.431	75.2	389 390	54 1284
3338	5.0	7 10.74	4.3572	0.0613	54 32 10.9	14.618	0.429	75.2	391 392	54 1285
3339	8.8	7 20.84	4.2896	0.0571	53 4 55.6	14.628	0.422	79.7	387 388 778 782	53 1322
3340	8.6	7 25.96	4.2092	0.0522	51 11 51.0	14.633	0.413	71.8	32 35 171 172	51 1492
3341	8.9	9 7 26.54	+4.2906	−0.0572	+ 53 7 8.2	−14.633	−0.422	79.2	292 293 778 782	53 1323
3342	9.4	7 38.62	4.3180	0.0590	53 45 8.3	14.645	0.424	75.2	389 390	53 1324
3343	8.8	8 23.94	4.2305	0.0539	51 50 29.5	14.690	0.414	72.7	32 35 292 293	51 1493
3344	8.5	8 27.06	4.2989	0.0581	53 25 59.6	14.694	0.420	75.2	387 388 391 392	53 1326
3345	8.6	8 29.36	4.2883	0.0575	53 11 59.6	14.696	0.419	75.2	389 390	53 1327
3346	9.6	9 8 35.72	+4.1708	−0.0504	+ 50 23 9.6	−14.702	−0.408	71.2	39 40	[50 1627]
3347	9.0	10 2.86	4.2491	0.0558	52 30 2.3	14.788	0.412	73.3	5 obs. [10]	52 1379
3348	9.0	10 4.84	4.2703	0.0571	52 59 53.4	14.790	0.414	75.2	387 388 391 392	53 1328
3349	9.2	10 10.34	4.3435	0.0619	54 37 40.1	14.796	0.421	79.2	292 293 778 782	54 1289
3350	9.2	10 20.31	4.2786	0.0578	53 13 21.2	14.806	0.415	75.2	389 390	53 1329

[1] Z. 41 44 46 391 392
[2] Z. 292 293 387 388 389 390
[3] Z. 41 44 46 391 392
[4] Z. 387 388 391 392 783 785
[5] Z. 41 292 293 389 390
[6] Dupl. 8m.6 & 9m.1 med.
[7] Z. 32 35 387 388 389 390
[8] Z. 387 388 390 391 392
[9] Z. 292 293 387 388 389 390
[10] Z. 43 44 46 467 468

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3351	8.0	$9^h\ 10^m 27^s.93$	+4ˢ.2323	−0ˢ.0549	+ 52° 9′ 22″.2	−14″.813	−0″.410	71.3	49 51	52° 1380
3352	9.0	10 54.90	4.1720	0.0514	50 43 40.3	14.840	0.403	71.2	39 40	[50 1628]
3353	8.4	11 16.21	4.1817	0.0522	51 1 18.0	14.860	0.403	72.7	32 35 292 293	51 1494
3354	6.9	11 41.33	4.2602	0.0572	52 58 34.1	14.885	0.410	75.2	6 obs. [1]	53 1330
3355	8.7	11 54.68	4.1439	0.0501	50 8 4.8	14.898	0.398	71.2	39 40	50 1629
3356	9.0	9 11 57.74	+4.1335	−0.0495	+ 49 51 52.4	−14.901	−0.398	81.5	231 782 787 788	49 1827
3357	6.6	12 2.52	4.2083	0.0541	51 47 13.8	14.906	0.404	72.3	171 172	51 1495
3358	8.0	12 21.89	4.2082	0.0542	51 49 40.2	14.925	0.403	71.2	32 35	51 1496
3359	9.3	12 37.53	4.2337	0.0560	52 28 45.6	14.940	0.405	71.3	41 46 49 51	52 1382
3360	8.4	12 54.58	4.3109	0.0610	54 16 55.0	14.956	0.413	74.7	292 293 389 390	54 1292
3361	9.0	9 12 58.18	+4.1572	−0.0514	+ 50 37 36.9	−14.960	−0.397	71.2	39 40	50 1631
3362	8.6	13 5.44	4.3043	0.0607	54 9 42.1	14.967	0.411	75.2	387 388	54 1293
3363	8.2	13 22.72	4.1909	0.0536	51 32 17.8	14.984	0.400	84.2	783 785	51 1498
3364	9.0	13 37.37	4.2992	0.0606	54 7 10.9	14.998	0.410	81.3	387 787 788	54 1295
3365	8.8	13 45.86	4.2686	0.0587	53 26 59.8	15.006	0.407	75.2	391 392	53 1332
3366	8.6	9 13 49.22	+4.1887	−0.0536	+ 51 32 39.2	−15.009	−0.399	75.2	389 390	51 1499
3367	8.8	13 59.72	4.1715	0.0526	51 8 0.6	15.020	0.397	79.2	292 293 778 782	51 1500
3368	9.2	13 59.92	4.1309	0.0502	50 4 34.6	15.020	0.393	72.2	39 231	50 1633
3369	7.2	14 0.25	4.1308	0.0502	50 4 30.1	15.020	0.393	77.2	5 obs. [2]	50 1633
3370	8.8	14 1.95	4.1713	0.0526	51 8 1.1	15.022	0.396	77.6	292 293 782	51 1500
3371	8.8	9 14 31.25	+4.2807	−0.0598	+ 53 49 34.5	−15.050	−0.406	75.2	387 388	53 1335
3372	9.2	14 32.37	4.1754	0.0531	51 18 32.0	15.051	0.396	77.7	32 35 783 785	51 1501
3373	9.6	14 56.76	4.3325	0.0635	55 1 14.4	15.074	0.410	84.3	787 788	55 1332
3374	9.6	15 2.81	4.1940	0.0546	51 50 46.6	15.080	0.397	79.2 80.9	292 293α 783 785	51 1504
3375	9.4	16 6.51	4.1824	0.0542	51 42 15.2	15.141	0.393	71.2	32 35	51 1506
3376	8.4	9 16 6.80	+4.1722	−0.0536	+ 51 26 52.2	−15.142	−0.392	72.3	171 172	51 1507
3377	8.1	16 7.82	4.2754	0.0602	53 55 28.6	15.143	0.402	74.6	292 293 389	54 1297
3378	6.9	16 12.06	4.1471	0.0520	50 48 45.5	15.147	0.390	72.2	39 40 230 231	50 1635
3379	8.8	16 14.32	4.1429	0.0518	50 42 29.9	15.149	0.389	81.6	5 obs. [3]	50 1636
3380	6.8	16 14.81	4.1979	0.0552	52 6 30.7	15.149	0.394	71.3	44 46	52 1389
3381	9.3	9 16 37.36	+4.3039	−0.0624	+ 54 37 39.7	−15.171	−0.404	79.8	387 388 787 788	54 1298
3382	8.8	16 38.80	4.2021	0.0557	52 16 7.1	15.172	0.394	71.3	49 51	52 1390
3383	9.2	16 45.23	4.2996	0.0622	54 33 11.2	15.178	0.404	75.2	391 392	} 54 1299
3384	8.6	16 45.72	4.2996	0.0622	54 33 7.8	15.179	0.403	75.2	391 392	
3385	9.4	17 8.08	4.1522	0.0527	51 4 43.2	15.200	0.388	73.2	35 292 293	51 1510
3386	9.5	9 17 10.60	+4.2830	−0.0612	+ 54 14 26.2	−15.202	−0.401	81.2 82.0	6 obs. [4]	54 1300
3387	8.6	17 15.37	4.2837	0.0613	54 16 3.9	15.207	0.401	75.2	5 obs. [5]	54 1301
3388	9.3	17 16.52	4.2862	0.0615	54 19 29.2	15.208	0.401	77.3	533 534	54 1302
3389	9.6	17 39.94[6]	4.1814	0.0548	51 53 55.9	15.230	0.390	76.5 78.4	32 292 778δ 782	51 1511
3390	9.0	17 40.14	4.1142	0.0506	50 8 48.3	15.230	0.384	71.2	39 40	50 1638
3391	9.7	9 18 21.64	+4.1208	−0.0513	+ 50 25 29.0	−15.270	−0.383	73.2	230 231	— —
3392	7.9	18 25.66	4.1133	0.0508	50 13 53.6	15.274	0.382	84.9	782 856 858	50 1640
3393	9.0	18 54.20	4.1017	0.0503	49 59 4.3	15.301	0.380	71.2	39 40	50 1641
3394	9.4	19 21.96	4.2198	0.0581	53 4 49.3	15.327	0.390	75.2	387 388	53 1337
3395	9.2	19 41.52	4.2865	0.0627	54 40 6.7	15.345	0.396	74.8	292 293 391 392	54 1304
3396	9.0	9 19 51.34	+4.2892	−0.0630	+ 54 45 5.6	−15.354	−0.396	75.2	389 390	54 1305
3397	8.9	19 52.77[7]	4.2709	0.0618	54 20 39.1	15.356	0.394	81.2 79.7	387δ 388 778 782	54 1306
3398	9.5	20 6.52	4.1112	0.0514	50 25 9.8	15.369	0.378	71.2	39 40	50 1642
3399	9.0	20 24.85	4.1163	0.0518	50 36 6.3	15.386	0.378	81.3	172 785 787 788	50 1643
3400	7.3	20 29.18	4.1148	0.0518	50 34 26.3	15.390	0.378	82.3	468 785 787 788	50 1644

[1] Z. 387 388 389 390 391 392 [2] Z. 39 230 231 778 782 [3] Z. 43 778 782 783 785
[4] Z. 389 390α 778 782α 783 785 [5] Z. 387 389 390 391 392 [6] 40ˢ.03 39ˢ.91 [40ˢ.27] 39ˢ.88
[7] [52ˢ.39] 52ˢ.70 52ˢ.86 52ˢ.76

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3401	8.6	$9^h\,20^m\,54^s.38$	+4ˢ.1706	−0ˢ.0555	+ 52° 5′ 31″.7	−15″.413	−0″.382	71.3	44 46	52° 1395
3402	8.4	20 57.33	4.2788	0.0628	54 40 24.4	15.416	0.392	77.9	6 obs. [1]	54 1307
3403	9.0	21 39.71	4.1908	0.0572	52 42 23.8	15.456	0.383	77.8 79.0	6 obs. [2]	52 1397
3404	8.9	21 54.46	4.2152	0.0590	53 20 7.2	15.469	0.384	75.2	387 388 391 392	53 1339
3405	9.1	22 3.05	4.2692	0.0628	54 36 50.8	15.477	0.389	74.7	292 293 389 390	54 1310
3406	9.2	9 22 55.03	+4.1097	−0.0524	+ 50 47 45.5	−15.525	−0.373	72.6	171 172 232	50 1649
3407	8.8	22 56.06	4.1156	0.0528	50 57 24.8	15.526	0.373	71.2	32 35	51 1521
3408	9.2	23 10.96	4.0953	0.0516	50 26 30.6	15.540	0.371	72.7	39 40 292 293	50 1652
3409	9.0	23 32.52	4.2103	0.0594	53 27 23.8	15.560	0.381	75.2	387 388 389 390	53 1341
3410	8.8	23 48.89	4.2267	0.0600	53 39 5.6	15.575	0.381	75.2	391 392	53 1342
3411	9.4	9 23 52.40	+4.1949	−0.0585	+ 53 7 57.2	−15.578	−0.379	84.2	778 782	53 1343
3412	9.0	24 15.19	4.0986	0.0522	50 41 39.1	15.599	0.369	76.6	6 obs. [3]	50 1656
3413	**3.0**	**24 29.21**	**4.1559**	**0.0561**	**52 14 44.2**	**15.612**	**0.374**		**Fund. Cat.**	**52 1401**
3414	6.8	24 42.65	4.0707	0.0506	49 59 17.8	15.624	0.366	72.3	171 172	50 1657
3415	7.8	25 11.35	4.1814	0.0582	52 59 45.2	15.650	0.375	75.2	389 390	53 1347
3416	8.8	9 25 20.64	+4.0735	−0.0511	+ 50 9 52.6	−15.659	−0.364	71.2	39 40	50 1658
3417	6.6	25 33.30	4.2462	0.0629	54 35 57.6	15.670	0.380	74.2	292 293	54 1312
3418	5.5	26 14.83	4.1596	0.0572	52 36 22.0	15.708	0.370	83.0	7 obs. [4]	52 1402
3419	9.0	26 17.88	4.1348	0.0555	51 58 27.0	15.711	0.368	75.3	393 394 395 396	52 1403
3420	8.8	26 42.86	4.0896	0.0527	50 49 35.4	15.733	0.363	71.2	39 40	50 1659
3421	9.1	9 26 51.93	+4.0791	−0.0520	+ 50 33 23.5	−15.742	−0.362	74.1	5 obs. [5]	50 1660
3422	9.6	26 56.00	4.2262	0.0622	54 20 20.8	15.745	0.375	84.8	788 857	54 1313
3423	8.3	27 2.34	4.2050	0.0607	53 51 1.8	15.751	0.373	79.2	5 obs. [6]	53 1350
3424	8.4	27 13.90	4.0796	0.0522	50 37 41.8	15.761	0.361	73.2	230 231	50 1661
3425	9.3	27 19.73	4.0947	0.0532	51 3 37.6	15.767	0.362	71.2	32 35	51 1523
3426	8.6	9 27 24.69	+4.2028	−0.0607	+ 53 51 12.6	−15.771	−0.372	80.0	6 obs. [7]	53 1351
3427	9.3	27 40.91	4.1159	0.0548	51 41 19.5	15.786	0.363	80.6	233 787 788	51 1524
3428	7.9	27 49.64	4.2348	0.0632	54 40 33.6	15.794	0.374	75.3	395 396	54 1314
3429	9.4	28 13.18	4.0942	0.0536	51 11 4.0	15.815	0.360	74.3	230 232 393 394	51 1525
3430	8.9	28 40.60	4.2363	0.0638	54 50 19.4	15.839	0.372	75.3	389 395 396	54 1315
3431	9.3	9 28 54.59	+4.0535	−0.0512	+ 50 9 10.5	−15.852	−0.355	72.3	171 172	50 1663
3432	8.6	29 5.65	4.0425	0.0505	49 51 49.6	15.862	0.354	71.2	39 40	49 1853
3433	8.8	29 11.02	4.0917	0.0538	51 16 5.2	15.866	0.358	71.2	32 35	51 1529
3434	8.9	29 39.72	4.0402	0.0506	49 53 15.9	15.892	0.353	73.2	39 40 393 394	49 1856
3435	8.6	30 0.71	4.0570	0.0519	50 25 40.6	15.911	0.353	72.2	43 48 230 231	50 1665
3436	9.8	9 30 2.27	+4.1156	−0.0558	+ 52 2 58.3	−15.912	−0.358	71.3	44 46 49	52 1407
3437	8.0	30 18.96	4.0687	0.0528	50 48 38.1	15.927	0.354	80.2	171 778 782	50 1666
3438	8.4	30 35.64	4.1443	0.0581	52 53 19.8	15.942	0.361	71.3	44 46	52 1408
3439	8.8	30 39.78	4.0512	0.0518	50 22 4.6	15.945	0.351	71.2	39 40	[50 1667]
3440	7.6	31 20.79	4.1865	0.0615	54 3 51.4	15.982	0.362	75.0	6 obs. [8]	54 1316
3441	9.2	9 31 32.00	+4.1081	−0.0560	+ 52 5 15.0	−15.991	−0.355	71.3	49 51	52 1410
3442	7.8	32 3.26	4.1764	0.0611	53 55 42.8	16.019	0.360	75.3	395 396	54 1319
3443	9.1	32 19.82	4.0970	0.0556	51 54 54.4	16.033	0.352	71.3	49 51	52 1411
3444	8.6	32 24.94	4.1967	0.0628	54 28 49.6	16.038	0.361	74.8	294 295 393 394	54 1320
3445	8.0	32 29.77	4.1441	0.0590	53 11 7.5	16.042	0.356	84.2	778 782	53 1353
3446	9.3	9 32 36.77	+4.0219	−0.0506	+ 49 49 36.4	−16.048	−0.345	71.9	43 171 172	49 1862
3447	8.7	32 53.18	4.0781	0.0545	51 29 12.2	16.063	0.349	71.2	32 35	51 1533
3448	7.6	32 55.38	4.1220	0.0576	52 40 46.8	16.064	0.353	71.2	44 46	52 1413
3449	9.6	32 57.73	4.2175	0.0646	55 3 40.7	16.067	0.361	84.2	778	55 1344
3500	8.6	33 8.21	4.0223	0.0508	49 55 36.1	16.076	0.344	71.2	39 40	50 1670

[1] Z. 292 293 389 390 778 782
[2] Z. 44 49 51α 782 783 785
[3] Z. 39 40 292 293 778 782
[4] Z. 232 778 782 783 785 856 858
[5] Z. 171 172 393 395 396
[6] Z. 389 390 534 778 782
[7] Z. 389 390 534 782 783 785
[8] Z. 294 295 393 394 395 396

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3451	9.0	9h 33m 10s.36	+4s.1763	−0s.0616	+ 54° 6′ 6″.6	−16″.078	−0″.357	74.8	295 396	54° 1322
3452	8.4	33 10.54	4.1622	0.0606	53 45 5.9	16.078	0.356	81.9	536 783 785	53 1354
3453	9.2	33 14.33	4.0760	0.0545	51 29 9.0	16.081	0.348	71.2	32 35	51 1534
3454	8.9	33 28.86	4.1624	0.0608	53 47 48.8	16.090	0.356	77.3	534 535 536 537	53 1355
3455	9.0	33 42.91	4.1703	0.0615	54 2 30.6	16.106	0.356	75.0	294 393 394 395	54 1323
3456	9.0	9 33 52.11	+4.0182	−0.0508	+ 49 55 27.4	−16.114	−0.342	71.2	39 40	50 1673
3457	7.1	34 18.00	4.0823	0.0554	51 50 9.7	16.136	0.347	72.6	32 230 231	51 1536
3458	9.8	34 25.66	4.1669	0.0616	54 4 16.9	16.143	0.354	75.3	393 394	54 1324
3459	6.6	34 27.33	4.2021	0.0642	54 55 58.8	16.144	0.357	84.2	778 782	55 1345
3460	8.0	34 31.57	4.0567	0.0537	51 9 22.2	16.148	0.344	81.2	396 783 785	51 1537
3461	8.4	9 34 40.23	+4.1499	−0.0605	+ 53 40 58.2	−16.156	−0.352	76.1	5 obs. [1]	53 1356
3462	9.4	34 57.78	4.0561	0.0539	51 12 43.0	16.171	0.343	73.2	230 231	51 1538
3463	8.5	35 3.60	4.1427	0.0601	53 33 45.4	16.176	0.350	81.6	468 783 785	53 1357
3464	8.8	35 30.30	4.0416	0.0531	50 53 7.4	16.199	0.341	71.2	39 40	50 1677
3465	9.4	35 31.75	4.1704	0.0624	54 20 13.2	16.200	0.352	81.9 84.2	534α 778 782	54 1327
3466	8.7	9 35 46.12	+4.0774	−0.0557	+ 51 56 31.1	−16.212	−0.343	84.2	778 782	— —
3467	8.9	36 4.29	4.0082	0.0510	49 59 47.7	16.228	0.336	75.9	6 obs. [2]	50 1680
3468	8.6	36 4.33	4.0752	0.0557	51 55 55.0	16.228	0.342	71.3	44 46	52 1415
3469	8.5	36 8.79	4.1280	0.0596	53 21 49.8	16.232	0.346	78.1	6 obs. [3]	53 1358
3470	8.7	36 12.59	4.0744	0.0558	51 56 3.1	16.235	0.342	71.3	49 51 54	52 1416
3471	9.4	9 36 18.34	+4.1696	−0.0628	+ 54 26 32.8	−16.240	−0.350	75.3	393 394	54 1328
3472	8.6	36 24.98	4.0977	0.0575	52 36 22.1	16.246	0.344	73.2	230 231	52 1417
3473	8.7	36 31.18	4.0727	0.0557	51 56 17.8	16.251	0.341	84.2	778 782	— —
3474	8.9	37 15.38	4.0879	0.0572	52 28 53.3	16.289	0.341	78.5	49 295 783 785	52 1419
3475	9.3	38 0.83	4.1161	0.0596	53 21 42.7	16.327	0.342	75.1	5 obs. [4]	53 1359
3476	9.2	9 38 7.72	+3.9939	−0.0509	+ 49 54 45.8	−16.333	−0.331	71.2	39 40	[50 1681]
3477	8.7	39 16.08	4.0418	0.0548	51 31 54.1	16.391	0.333	73.5	5 obs. [5]	51 1543
3478	9.7	39 38.78	3.9892	0.0512	50 1 52.9	16.410	0.327	71.2	39 40	[50 1684]
3479	7.5	40 0.26	4.1610	0.0640	54 50 34.8	16.428	0.341	75.3	393 394	54 1329
3480	8.2	40 20.34	4.1458	0.0631	54 31 12.0	16.444	0.339	75.3	395 396	54 1330
3481	9.1	9 40 32.79	+4.0314	−0.0546	+ 51 27 13.8	−16.455	−0.329	71.9	43 171 172	51 1545
3482	8.7	40 58.08	4.0058	0.0529	50 46 8.4	16.476	0.326	71.2	39 40	50 1687
3483	9.4	41 7.88	4.0197	0.0540	51 12 52.0	16.484	0.327	75.3	393 394	51 1547
3484	7.6	41 18.73	4.0990	0.0600	53 28 19.4	16.493	0.333	80.2	468 778	53 1361
3485	...	41 30.14	3.9722	0.0507	49 50 1.4	16.502	0.322	84.2	783 785	49 1882
3486	7.8	9 41 44.70	+4.0428	−0.0559	+ 51 59 29.0	−16.514	−0.327	75.0	295 395 396	52 1424
3487	8.9	41 45.72	4.0328	0.0552	51 42 24.0	16.515	0.326	75.3	393 394	51 1549
3488	9.1	41 48.63	4.0264	0.0548	51 31 51.7	16.518	0.326	78.7 80.6	230α 231 783 785	51 1550
3489	9.0	42 15.00	4.1015	0.0606	53 41 58.4	16.540	0.331	84.2	778 783 785	53 1363
3490	8.8	42 37.49	4.1014	0.0608	53 45 51.4	16.558	0.330	75.6	395 396 468	53 1364
3491	8.5	9 42 38.46	+4.0589	−0.0575	+ 52 36 21.8	−16.559	−0.327	74.8	294 295 393 394	52 1426
3492	8.8	42 49.28	4.0229	0.0549	51 36 22.6	16.568	0.324	72.3	171 172	51 1551
3493	9.0	43 7.20	3.9880	0.0525	50 36 47.4	16.582	0.320	71.2	39 40	50 1688
3494	5.5	43 35.26	4.1289	0.0634	54 38 50.1	16.606	0.330	77.3	535 536 537	54 1331
3495	8.6	43 40.39	4.0372	0.0564	52 10 24.1	16.610	0.323	74.8 75.0	294 295α 393 394	52 1427
3496	8.4	9 43 40.40	+4.0932	−0.0606	+ 53 43 45.4	−16.610	−0.328	82.2	468 778 783 785	53 1366
3497	7.8	43 42.54	3.9715	0.0515	50 12 29.2	16.611	0.317	73.2	230 231	50 1689
3498	7.6	43 44.97	3.9757	0.0519	50 20 44.4	16.614	0.318	73.3	233 234 235	50 1690
3499	9.6	43 52.14	3.9678	0.0514	50 7 21.8	16.619	0.317	75.3	395 396	50 1691
3500	8.8	43 53.62	4.0842	0.0601	53 31 29.8	16.620	0.326	77.3	533 534	53 1368

[1] Z. 294 295 534 535 537 [2] Z. 43 48 171 172 783 785 [3] Z. 294 295 396 468 787 788
[4] Z. 295 393 394 395 396 [5] Z. 32 35 295 393 394

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3501	8.6	$9^h\,43^m\,57^s.31$	+3.9813	−0.0524	+ 50°33′33″.6	−16.624	−0.318	73.2	39 40 397 398	50° 1692
3502	7.8	44 8.88	3.9554	0.0506	49 46 38.7	16.633	0.315	84.3	783 789 790	49 1889
3503	8.7	44 30.87	4.0672	0.0590	53 10 18.7	16.651	0.324	74.8	294 295 393 394	53 1369
3504	7.0	45 2.01	3.9961	0.0539	51 12 27.7	16.676	0.316	71.7 71.8	5 obs. [1]	51 1553
3505	8.7	45 20.34	4.0407	0.0574	52 34 28.1	16.691	0.319	73.3	233 234 235	52 1428
3506	8.8	9 45 39.88	+3.9947	−0.0541	+ 51 16 51.9	−16.707	−0.315	72.8	32 35 294 295	51 1554
3507	8.2	45 51.64	3.9882	0.0537	51 7 7.7	16.716	0.314	74.3	230 231 393 394	51 1555
3508	8.6	46 45.52	3.9756	0.0532	50 53 55.2	16.760	0.311	71.2	39 40	50 1697
3509	9.6	46 47.40	4.0085	0.0557	51 54 9.2	16.761	0.314	73.4	6 obs. [2]	51 1556
3510	8.6	47 16.54	4.0107	0.0560	52 3 23.4	16.784	0.313	72.3	49 231	52 1430
3511	5.5	9 47 32.84	+3.9554	−0.0520	+ 50 24 32.4	−16.797	−0.308	71.2	39 40	50 1698
3512	8.8	47 42.22	3.9988	0.0554	51 46 54.4	16.805	0.311	71.2	32 35	51 1557
3513	7.1	47 46.77	4.0351	0.0582	52 51 37.3	16.808	0.314	73.3	233 234 235	52 1431
3514	6.5	47 58.59	4.1060	0.0639	54 50 5.1	16.818	0.319	75.0	295 393 394	54 1337
3515	8.6	48 1.42	4.0984	0.0634	54 38 39.8	16.820	0.318	75.3	395 396	54 1338
3516	9.4	9 48 8.01	+4.1078	−0.0642	+ 54 54 38.5	−16.825	−0.319	84.2	782 783 785	55 1354
3517	9.4	49 27.24	3.9596	0.0532	50 54 10.0	16.888	0.304	71.2	39 40	[50 1701]
3518	8.8	49 56.11	4.0155	0.0577	52 41 43.3	16.910	0.308	72.6	49 230 231	52 1434
3519	9.6	50 0.11	3.9921	0.0559	52 0 44.5	16.914	0.305	82.2	468 782 783 785	52 1435
3520	7.9	50 2.69	3.9968	0.0563	52 9 52.9	16.916	0.306	79.0	6 obs. [3]	52 1436
3521	9.4	9 50 5.42	+4.0827	−0.0632	+ 54 36 31.2	−16.918	−0.312	75.3	393 394	54 1340
3522	9.3	50 23.72	3.9909	0.0560	52 3 12.2	16.932	0.305	75.3	395 396	52 1437
3523	8.1	50 34.16	4.0104	0.0576	52 39 59.0	16.940	0.306	75.3	397 398	52 1438
3524	6.2	50 35.59	3.9469	0.0528	50 43 12.8	16.941	0.301	71.2	39 40	50 1702
3525	8.4	50 44.86	4.0508	0.0610	53 51 32.2	16.949	0.308	77.3	533 534	53 1375
3526	9.1	9 50 45.72	+3.9626	−0.0540	+ 51 14 55.5	−16.949	−0.302	71.8	43 48 171 172	51 1560
3527	8.6	50 50.98	4.0021	0.0572	52 28 27.0	16.953	0.305	79.2 80.6	233 394α 778 782	52 1439
3528	8.6	50 59.77	3.9717	0.0548	51 34 40.6	16.960	0.302	74.3	230 231 395 396	51 1561
3529	9.1	51 8.24	4.0525	0.0613	53 58 52.2	16.967	0.308	77.3	533 535 536 537	54 1342
3530	9.5	51 32.71	4.0487	0.0612	53 56 58.6	16.986	0.307	76.0	393 394 534	54 1343
3531	8.6	9 51 42.62	+3.9358	−0.0524	+ 50 34 33.5	−16.994	−0.297	71.2	39 40	50 1703
3532	9.4	51 50.55	4.0186	0.0589	53 8 55.4	17.000	0.303	75.3	395 396 397 398	53 1376
3533	8.2	52 9.08	3.9728	0.0554	51 50 9.8	17.014	0.299	73.2	230 231	51 1563
3534	8.4	52 10.54	3.9528	0.0539	51 12 48.3	17.015	0.298	71.9	42 171 172	51 1564
3535	8.4	52 22.70	4.0330	0.0603	53 39 59.4	17.024	0.300	75.3	295 468	53 1377
3536	8.8	9 52 28.90	+3.9339	−0.0526	+ 50 40 5.9	−17.029	−0.296	71.2	39 40	50 1704
3537	7.7	52 33.67	4.0338	0.0605	53 43 26.1	17.033	0.303	79.7	5 obs. [4]	53 1378
3538	8.2	52 47.59	3.9912	0.0572	52 31 26.4	17.044	0.300	73.3	6 obs. [5]	52 1442
3539	8.6	53 18.71	4.0469	0.0620	54 14 12.8	17.068	0.303	75.3	393 394	54 1344
3540	9.0	53 36.29	3.9925	0.0577	52 43 13.7	17.081	0.299	73.3	231 233 234 235	52 1445
3541	7.7	9 53 43.40	+3.9390	−0.0535	+ 51 4 47.9	−17.086	−0.294	71.7	5 obs. [6]	51 1566
3542	8.4	53 45.71	3.9818	0.0569	52 25 37.5	17.088	0.297	71.3	49 54	52 1446
3543	8.4	53 48.07	3.9999	0.0584	52 58 51.4	17.090	0.298	75.1	5 obs. [7]	53 1380
3544	9.3	53 53.18	4.0199	0.0600	53 34 57.6	17.094	0.299	81.6	468 778 782	53 1381
3545	9.0	53 53.92	4.0334	0.0612	53 58 18.8	17.094	0.300	77.3	533 534	54 1345
3546	8.9	9 54 28.59	+3.9849	−0.0575	+ 52 39 43.6	−17.121	−0.295	71.3	49 54	52 1447
3547	7.5	54 44.37	3 9146	0.0521	50 28 49.3	17.133	0.289	72.5	5 obs. [8]	50 1706
3548	8.7	54 49.54	4.0446	0.0626	54 27 53.6	17.137	0.299	75.3	393 394	54 1346
3549	6.0	55 8.32	3.9191	0.0527	50 42 39.8	17.151	0.289	73.2	230 231	50 1707
3550	8.4	55 11.28	3.8921	0.0505	49 48 26.6	17.153	0.287	84.2	778 782	49 1907

[1] Z. 43 48α 53 171 172 [2] Z. 32 171 172 295 393 394 [3] Z. 233 234 235 787 788 859
[4] Z. 396 533 534 778 782 [5] Z. 49 54 230 231 397 398 [6] Z. 42 43 48 171 172
[7] Z. 295 395 396 397 398 [8] Z. 39 40 233 234 235

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3551	7.6	$9^h\ 55^m\ 11^s.41$	+4ˢ.0234	−0ˢ.0610	+ 53°56′ 15″.3	−17″.153	−0″.297	75.6	397 398 468	54°1347
3552	9.1	55 24.84	4.0184	0.0607	53 50 16.2	17.163	0.296	75.0	295 395 396	53 1383
3553	5.4	56 17.21	4.0354	0.0626	54 29 44.0	17.203	0.295	75.3	393 394	54 1348
3554	8.9	56 20.04	3.9134	0.0527	50 45 56.4	17.205	0.286	72.6	39 40 395	50 1711
3555	8.6	56 20.34	4.0514	0.0640	54 57 0.0	17.205	0.296	84.2	783 785	55 1362
3556	8.9	9 56 23.25	+3.8957	−0.0514	+ 50 10 32.3	−17.207	−0.284	75.3	6 obs. [1]	50 1710
3557	9.0	56 45.78	3.9526	0.0560	52 7 27.1	17.224	0.288	74.0	54 397 398	52 1449
3558	9.2	56 46.18	3.9132	0.0529	50 50 46.6	17.224	0.285	82.2	396 778 782 860	50 1712
3559	9.4	56 55.95	3.9293	0.0543	51 24 41.7	17.232	0.286	79.9	45 778 782	51 1571
3560	6.4	56 57.76	3.9788	0.0583	52 58 33.1	17.233	0.289	75.3	393 394	53 1384
3561	7.4	9 57 7.70	+3.9203	−0.0536	+ 51 9 23.7	−17.240	−0.285	73.9	5 obs. [2]	51 1572
3562	7.8	57 27.09	3.9442	0.0557	51 59 46.6	17.255	0.286	73.9	7 obs. [3]	52 1450
3563	7.8	57 41.12	3.9280	0.0545	51 31 27.9	17.265	0.284	71.2	42 45	51 1573
3564	8.6	58 27.06	3.9023	0.0528	50 49 42.4	17.299	0.280	71.2	39 40	50 1713
3565	8.2	58 51.22	3.8745	0.0508	49 57 11.2	17.317	0.277	75.3	393 394	50 1714
3566	8.9	9 58 52.23	+3.9593	−0.0577	+ 52 45 49.5	−17.318	−0.284	74.0	50 397 398	52 1453
3567	9.4	59 4.38	3.9358	0.0558	52 3 44.1	17.327	0.281	72.6	54 230 231	52 1454
3568	9.2	59 6.15	3.9401	0.0562	52 12 26.3	17.328	0.282	73.3	233 234 235	52 1455
3569	8.8	59 14.88	3.8690	0.0505	49 50 36.6	17.334	0.276	84.2	778 782	49 1921
3570	8.1	59 30.69	3.9891	0.0605	53 48 18.8	17.346	0.284	77.3	535 536 537	53 1387
3571	9.0	9 59 41.60	+4.0155	−0.0629	+ 54 36 48.7	−17.354	−0.286	75.7	5 obs. [4]	54 1351
3572	8.6	10 0 3.72	3.9813	0.0602	53 41 5.9	17.370	0.283	75.0	295 397 398	53 1388
3573	8.3	0 57.63	3.9742	0.0600	53 39 23.8	17.409	0.280	75.3	393 394	53 1391
3574	7.6	1 4.67	3.9037	0.0542	51 25 54.8	17.414	0.275	71.9	6 obs. [5]	51 1577
3575	9.4	1 8.56	3.9666	0.0595	53 27 43.2	17.417	0.279	75.0	295 395 396	53 1392
3576	9.0	10 1 50.00	+3.9047	−0.0546	+ 51 37 30.8	−17.447	−0.273	71.2	42 45	51 1579
3577	7.2	2 19.83	3.8582	0.0510	50 7 15.2	17.468	0.269	71.2	39 40	50 1721
3578	9.2	2 24.58	3.9641	0.0599	53 39 15.4	17.472	0.276	75.0	295 393 394	53 1394
3579	9.4	2 53.16	3.9693	0.0606	53 54 43.9	17.492	0.276	76.6	395 533 534	54 1352
3580	9.4	3 4.28	3.8506	0.0508	50 0 39.0	17.500	0.267	73.3	233 235	50 1723
3581	8.8	10 3 34.61	+3.8482	−0.0508	+ 50 2 2.1	−17.522	−0.266	81.3	397 787 788	50 1724
3582	6.7	3 41.18	3.8489	0.0509	50 5 4.5	17.526	0.265	81.6	783 785 859 860	50 1725
3583	9.2	3 50.01	3.9688	0.0611	54 5 52.1	17.533	0.274	75.0	295 393 394	54 1353
3584	8.8	4 5.79	3.9914	0.0632	54 49 42.7	17.544	0.274	77.3	533 534	54 1354
3585	8.3	4 17.82	3.9656	0.0611	54 6 9.8	17.552	0.272	76.1	6 obs. [6]	54 1355
3586	8.7	10 4 46.45	+3.9622	−0.0610	+ 54 6 1.9	−17.573	−0.271	80.9	295 783 785	54 1356
3587	7.7	4 52.87	3.8988	0.0556	52 5 35.3	17.577	0.266	71.3	47 51 54	52 1461
3588	9.0	5 4.53	3.8635	0.0527	50 55 1.9	17.585	0.263	73.3	233 235	51 1583
3589	9.1	5 18.16	3.8547	0.0521	50 39 16.6	17.595	0.262	75.3	395 396	50 1728
3590	9.2	5 20.81	3.8765	0.0540	51 25 57.4	17.597	0.264	75.3	397 398	51 1584
3591	6.7	10 5 44.81	+3.8648	−0.0532	+ 51 6 48.2	−17.613	−0.262	75.3	399 400	51 1585
3592	9.0	5 50.38	3.9245	0.0583	53 8 57.0	17.617	0.266	79.4 80.8	5 obs. [7]	53 1395
3593	7.9	5 52.88	3.8584	0.0527	50 54 49.7	17.619	0.261	73.3	233 235	51 1586
3594	9.4	5 56.24	3.8870	0.0551	51 55 34.6	17.621	0.263	71.3	47 51 54	52 1462
3595	9.2	6 5.10	3.9748	0.0629	54 46 1.5	17.628	0.269	75.3	393 394	54 1358
3596	8.4	10 6 19.62	+3.9538	−0.0612	+ 54 10 48.0	−17.638	−0.267	79.8 81.2	397 398α 783 785	54 1359
3597	8.8	6 27.04	3.8402	0.0514	50 23 13.6	17.643	0.259	75.3	395 396	50 1729
3598	8.0	6 29.56	3.9593	0.0618	54 23 12.0	17.644	0.267	75.3	399 400	54 1360
3599	9.1	6 33.48	3.8985	0.0564	52 27 12.3	17.647	0.262	73.3	233 235	52 1463
3600	9.3	7 40.10	3.8990	0.0571	52 43 10.3	17.693	0.260	71.3	47 51 54	52 1467

[1] Z. 230 231 233 234 235 859 [2] Z. 43 48 171 538 539 [3] Z. 230 231 233 234 235 397 398
[4] Z. 393 394 395 396 538 [5] Z. 42 43 45 48 233 235 [6] Z. 295 393 394 535 536 537
[7] Z. 295α 533 534 783 785

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3601	9.0	10h 7m57.87	+3.8587	−0.0538	+ 51°23′58.8	−17.705	−0.256	75.0	295 393 399 400	51° 1589
3602	7.9	8 0.80	3.8459	0.0527	50 56 59.0	17.707	0.256	74.0	233 235 397	51 1590
3603	8.4	9 29.38	3.8918	0.0574	52 53 34.6	17.768	0.256	77.7	7 obs. [1]	53 1397
3604	7.3	10 2.78	3.8128	0.0509	50 11 45.3	17.790	0.248	73.3	233 234 235	50 1732
3605	8.0	10 7.36	3.8740	0.0562	52 25 53.1	17.793	0.253	71.3	47 51 54	52 1470
3606	8.7	10 10 38.81	+3.9211	−0.0607	+ 54 7 13 9	−17.814	−0.255	76.0	6 obs. [2]	54 1362
3607	8.2	10 53.06	3.9277	0.0615	54 23 14.0	17.824	0.254	75.3	399 400	54 1363
3608	9.2	10 59.32	3.7981	0.0501	49 51 19.9	17.828	0.246	84.3	787 788	49 1937
3609	6.7	11 1.80	3.8564	0.0551	52 1 47.5	17.830	0.250	73.0	7 obs. [3]	52 1473
3610	8.4	11 31.22	3.9161	0.0608	54 9 39.4	17.849	0.253	75.3	397 398	54 1365
3611	7.1	10 12 11.01	+3.9188	−0.0614	+ 54 24 13.2	−17.876	−0.251	75.7	5 obs. [4]	54 1366
3612	9.0	12 24.35	3.7903	0.0501	49 53 31.4	17.884	0.242	73.3	233 235	49 1942
3613	6.1	12 25.14	3.9310	0.0627	54 50 36.0	17.885	0.252	75.3	401 402	54 1367
3614	9.4	12 25.67	3.8900	0.0589	53 31 0.2	17.885	0.249	75.3	399 400	53 1398
3615	9.1	12 25.68	3.8394	0.0543	51 45 11.6	17.885	0.246	75.3	395 396 397 398	51 1591
3616	9.2	10 13 13.46	+3.8180	−0.0529	+ 51 9 17.4	−17.917	−0.243	75.3	397 398	51 1593
3617	8.8	13 27.55	3.8125	0.0525	51 0 11.4	17.926	0.242	73.3	233 235	51 1594
3618	9.2	13 28.01	3.9199	0.0623	54 44 16.8	17.926	0.249	75.2	7 obs. [5]	54 1369
3619	8.4	14 15.46	3.8355	0.0550	52 3 14.8	17.957	0.241	71.3	47 50	52 1475
3620	8.4	14 37.70	3.8081	0.0527	51 7 30.6	17.972	0.239	73.3	233 235	51 1597
3621	9.3	10 14 49.03	+3.9065	−0.0618	+ 54 37 35.7	−17.979	−0.245	75.1	5 obs. [6]	54 1372
3622	9.3	14 53.58	3.7968	0.0518	50 45 16.5	17.982	0.238	75.3	397 398	50 1735
3623	9.2	15 52.23	3.8701	0.0590	53 40 8.4	18.020	0.240	78.0	6 obs. [7]	53 1402
3624	8.4	15 58.54	3.7764	0.0506	50 13 22.5	18.024	0.234	74.3	233 235 397 398	50 1736
3625	9.1	16 7.82	3.8365	0.0560	52 32 56.6	18.030	0.237	71.3	47 50	52 1477
3626	8.3	10 16 8.62	+3.7631	−0.0495	+ 49 43 43.4	−18.030	−0.233	78.6	399 400 860	49 1955
3627	9.6	16 56.24	3.8110	0.0542	51 48 36.7	18.060	0.235	78.3	7 obs. [8]	51 1599
3628	9.0	17 10.74	3.7590	0.0496	49 49 15.1	18.070	0.230	71.2	39 40	49 1957
3629	9.2	17 25.60	3.8347	0.0566	52 48 23.1	18.079	0.234	71.3	47 50 51	52 1478
3630	9.2	17 42.80	3.7610	0.0500	50 2 36.5	18.090	0.229	75.3	397 398	50 1738
3631	8.7	10 18 4.82	+3.8426	−0.0577	+ 53 15 23.5	−18.104	−0.233	75.3	399δ 400 401 402 [9]	53 1404
3632	8.9	18 5.21	3.8426	0.0577	53 15 24.5	18.104	0.233	75.3	399δ 400 401 402 [9]	
3633	6.2	18 21.86	3.8928	0.0627	55 2 29.5	18.114	0.236	84.3	787 788	55 1390
3634	9.0	18 40.45	3.7962	0.0537	51 41 5.6	18.126	0.229	73.3	233 235	51 1601
3635	8.2	18 48.10	3.8770	0.0614	54 37 41.1	18.131	0.234	75.3	397 398	54 1376
3636	8.9	10 19 42.21	+3.8311	−0.0576	+ 53 15 13.5	−18.164	−0.229	74.8	294 295 399 400	53 1405
3637	9.0	19 45.43	3.8829	0.0626	55 3 43.2	18.166	0.232	84.3	787 788	55 1392
3638	7.8	19 45.56	3.8608	0.0604	54 18 52.6	18.166	0.231	75.3	397 398	54 1377
3639	9.6	19 53.86	3.8120	0.0559	52 35 58.2	18.172	0.228	80.0	51 789 790	52 1481
3640	9.2	20 4.02	3.8334	0.0580	53 25 50.2	18.178	0.228	75.3	401 402	53 1406
3641	9.3	10 20 53.57	+3.8303	−0.0582	+ 53 31 58.8	−18.208	−0.227	74.8	294 295 397 398	53 1407
3642	8.8	21 14.96	3.8202	0.0574	53 15 22.4	18.221	0.225	75.3	399 400	53 1408
3643	9.2	21 31.48	3.8153	0.0571	53 8 48.6	18.231	0.224	75.3	401 402	53 1409
3644	8.9	21 36.89	3.8260	0.0582	53 33 45.1	18.234	0.225	77.3	535 536 537	53 1410
3645	9.3	22 6.94	3.8150	0.0574	53 17 29.2	18.253	0.223	74.8	294 295 397 398	53 1411
3646	7.8	10 22 16.31	+3.8033	−0.0564	+ 52 53 49.3	−18.258	−0.222	72.6	51 233 235	52 1484
3647	7.4	22 25.12	3.7698	0.0533	51 37 58.5	18.264	0.219	71.3	42 45 55	51 1604
3648	8.8	22 25.86	3.8418	0.0602	54 20 28.1	18.264	0.224	75.3	401 402	54 1378
3649	6.6	22 29.60	3.7588	0.0522	51 12 32.8	18.266	0.218	75.3	399 400	51 1605
3650	8.8	22 54.20	3.7768	0.0542	52 2 28.4	18.281	0.219	73.3	233 235	52 1486

[1] Z. 295 393 397 399 400 787 788
[2] Z. 393 395 396 397 533 534
[3] Z. 47 50 233 234 235 294 295
[4] Z. 294 295 393 533 534
[5] Z. 295 393 394 399 400 401 402
[6] Z. 295 399 400 401 402
[7] Z. 294 295 401 402 789 790
[8] Z. 233 235 294 295 788 789 790
[9] Mean of nos. 3631 & 3632: 5.18 (74.6) 24.0 (74.3) Z. 294 295 399α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3651	8.4	$10^h\ 23^m\ 12^s.74$	$+3^s.7327$	$-0^s.0502$	$+\ 50°\ 19'\ 8''.9$	$-18''.292$	$-0''.215$	71.2	39 40	50° 1744
3652	8.5	23 17.08	3.7846	0.0552	52 26 54.1	18.295	0.218	74.4	7 obs. [1]	52 1487
3653	8.8	24 50.20	3.7748	0.0551	52 29 17.5	18.350	0.214	73.3	5 obs. [2]	52 1489
3654	8.2	24 57.74	3.8199	0.0596	54 13 44.6	18.354	0.217	75.3	399 400	54 1379
3655	9.2	25 3.72	3.7132	0.0493	49 59 1.4	18.358	0.210	75.3	397 398	50 1746
3656	8.2	10 25 8.46	+3.8213	−0.0599	+ 54 19 38.0	−18.361	−0.216	75.3	401 402	54 1380
3657	9.0	25 28.96	3.7066	0.0489	49 48 39.2	18.373	0.209	71.2	39 40	49 1965
3658	9.1	25 39.61	3.7916	0.0572	53 21 55.1	18.379	0.214	77.3	535 536 537	53 1416
3659	8.7	25 46.46	3.8039	0.0585	53 51 37.0	18.383	0.214	78.0	6 obs. [3]	53 1417
3660	6.2	25 52.48	3.8107	0.0593	54 8 28.2	18.386	0.214	75.3	399 400	54 1381
3661	7.7	10 26 8.06	+3.7028	−0.0489	+ 49 49 28.5	−18.396	−0.207	72.6	39 40 401	49 1966
3662	8.9	26 12.23	3.7386	0.0523	51 23 39.6	18.398	0.209	84.3	789 790	51 1606
3663	9.0	26 21.95	3.7286	0.0514	51 1 11.7	18.404	0.208	76.8	397 398 646 647	51 1607
3664	9.3	26 29.70	3.7226	0.0510	50 48 0.3	18.408	0.208	73.3	233 235	50 1749
3665	7.0	26 42.76	3.6975	0.0487	49 45 7.1	18.416	0.206	81.3	402 787 788	49 1968
3666	9.0	10 26 45.78	+3.7947	−0.0582	+ 53 47 9.7	−18.418	−0.211	74.8	294 295 403 404	53 1418
3667	9.4	26 54.35	3.7241	0.0513	50 58 40.6	18.422	0.207	75.3	397 398	51 1610
3668	8.9	26 57.88	3.7678	0.0556	52 48 10.7	18.424	0.209	74.0	51 399 400	52 1491
3669	9.4	26 58.04	3.8086	0.0597	54 21 46.4	18.424	0.210	77.3	535 537	54 1382
3670	9.0	27 18.52	3.7162	0.0508	50 45 6.2	18.436	0.206	71.2	39 40	50 1750
3671	9.0	10 27 19.45	+3.7715	−0.0562	+ 53 2 53.2	−18.437	−0.209	76.6	403 535 537	53 1419
3672	8.6	27 30.06	3.8110	0.0604	54 35 53.0	18.443	0.210	75.3	401 402	54 1383
3673	7.9	27 40.50	3.8048	0.0598	54 25 4.6	18.449	0.210	75.0	295 397 398	54 1384
3674	9.0	28 16.47	3.7379	0.0535	51 57 23.9	18.469	0.205	74.3	233 235 399 400	52 1495
3675	7.2	28 33.08	3.7554	0.0553	52 45 18.8	18.479	0.205	75.0	6 obs. [4]	52 1496
3676	8.8	10 29 13.84	+3.6823	−0.0485	+ 49 47 15.8	−18.502	−0.200	71.2	39 40	49 1973
3677	9.0	29 15.39	3.7169	0.0519	51 20 46.1	18.503	0.201	78.8	233 235 787 788	51 1612
3678	9.5	29 16.34	3.7160	0.0518	51 18 37.6	18.503	0.201	71.2	42 45 55	51 1611
3679	8.6	29 41.81	3.7106	0.0515	51 11 53.4	18.518	0.200	74.5	5 obs. [5]	51 1615
3680	8.6	30 13.02	3.7712	0.0580	53 51 32.5	18.535	0.202	74.8	294 295 401 402	53 1422
3681	8.5	10 30 31.35	+3.7550	−0.0565	+ 53 18 21.6	−18.545	−0.200	75.3	397 398	53 1424
3682	9.5	30 47.69	3.7236	0.0535	52 5 4.2	18.554	0.198	71.3	47 50 54	52 1501
3683	9.6	31 1.78	3.7236	0.0536	52 9 8.6	18.562	0.198	74.3	233 235 399 400	52 1502
3684	8.3	31 3.58	3.6721	0.0485	49 51 22.8	18.563	0.196	71.2	39 40	49 1977
3685	5.7	31 19.75	3.7748	0.0591	54 19 12.3	18.572	0.200	75.0	6 obs. [6]	54 1387
3686	9.6	10 32 21.69	+3.6722	−0.0492	+ 50 15 23.0	−18.606	−0.192	73.5	5 obs. [7]	50 1756
3687	8.8	33 11.56	3.7772	0.0606	54 57 31.6	18.633	0.196	84.3	787 788	55 1403
3688	7.7	33 21.64	3.7584	0.0587	54 16 44.7	18.638	0.194	75.3	397 398 401 402	54 1388
3689	7.0	33 35.48	2.7404	0.0569	53 37 20.7	18.646	0.193	74.8	294 295 399 400	53 1427
3690	9.4	34 14.54	3.7042	0.0535	52 17 7.3	18.666	0.189	71.3	47 50	52 1504
3691	8.6	10 34 37.10	+3.6569	−0.0489	+ 50 13 40.7	−18.678	−0.186	71.2	39 40	50 1758
3692	9.4	34 41.36	3.7023	0.0536	52 20 22.2	18.681	0.188	84.3	787 788	52 1505
3693	9.1	34 43.45	3.7597	0.0598	54 44 21.0	18.682	0.192	74.9 75.0	6 obs. [8]	54 1389
3694	9.3	35 0.82	3.7646	0.0605	55 0 55.0	18.691	0.191	84.3	789 790	55 1405
3695	6.9	35 16.65	3.6785	0.0515	51 27 9.1	18.700	0.186	71.2	42 45 55	51 1621
3696	8.7	10 35 24.72	+3.7505	−0.0592	+ 54 34 59.2	−18.704	−0.190	75.3	397 398	54 1390
3697	9.1	35 32.14	3.7108	0.0550	52 58 23.7	18.708	0.187	75.3	399 400	53 1430
3698	9.3	36 3.78	3.7263	0.0570	53 47 49.6	18.724	0.187	74.8	294 295 401 402	53 1431
3699	9.5	36 13.10	3.7392	0.0588	54 22 38.5	18.729	0.187	78.1	5 obs. [9]	[54 1391]
3700	7.0	36 24.24	3.6499	0.0492	50 27 17.4	18.735	0.182	71.2	39 40	50 1760

[1] Z. 51 294 295 397 398 399 400
[2] Z. 51 233 235 294 295
[3] Z. 294 295 403 404 787 788
[4] Z. 294 295 397 398 401 402
[5] Z. 58 397 398 399 400
[6] Z. 294 295 397 398 401 402
[7] Z. 39 40 295 399 400
[8] Z. 294 295 397 398 401∂ 402
[9] Z. 535 646 647 648 649

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3701	9.2	10h 36m 29s.58	+3s.6416	−0s.0484	+ 50° 4′ 43″.4	−18″.738	−0″.181	82.0	539 787 788	50° 1761
3702	9.4	36 29.75	3.7370	0.0585	54 22 16.1	18.738	0 186	78.2	646 647 649	54 1393
3703	8.1	36 46.16	3.7040	0.0551	53 3 52.1	18.746	0.184	75.3	401 403 404	53 1432
3704	9.2	36 58.72	3.6534	0.0499	50 48 37.5	18.753	0.181	75.3	399 400	50 1762
3705	7.9	37 1.98	3.6384	0.0484	50 5 43.7	18.754	0.180	75.5 75.1	6 obs. [1]	50 1763
3706	8.9	10 38 8.09	+3.6320	−0.0483	+ 50 8 8.0	−18.788	−0.177	77.0	8 obs. [2]	50 1764
3707	8.9	38 23.47	3.6292	0.0482	50 4 45.8	18.796	0.176	74.3	294	50 1765
3708	8.5	38 46.21	3.7214	0.0584	54 26 30.4	18.808	0.180	75.3	399 400	54 1394
3709	9.0	39 10.92	3.6727	0.0533	52 26 25.7	18.820	0.177	71.3	47 50	52 1510
3710	9.1	39 36.81	3.6452	0.0506	51 16 42.0	18.833	0.175	71.2	42 45	51 1624
3711	9.2	10 40 22.34	+3.6647	−0.0532	+ 52 27 44.9	−18.856	−0.174	71.3	47 50	52 1511
3712	9.4	40 23.09	3.7141	0.0587	54 39 27.4	18.856	0.176	75.3	401 402	54 1396
3713	9.7	40 30.05	3.6254	0.0490	50 35 23.6	18.860	0.172	74.1	5 obs. [3]	50 1769
3714	9.2	41 3.01	3.7171	0.0595	55 0 7.2	18.876	0.175	84.3	787 788	55 1412
3715	8.5	41 20.76	3.6332	0.0503	51 16 8.9	18.885	0.170	71.3	55 56 58	51 1625
3716	9.2	10 41 32.38	+3.7026	−0.0582	+ 54 33 6.4	−18.890	−0.173	75.3	399 400 401 402	54 1398
3717	8.4	42 41.10	3.6370	0.0516	51 55 9.3	18.924	0.168	77.8 80.0	51α 54 787 788	52 1513
3718	9.7	42 46.14	3.6181	0.0496	50 59 46.7	18.926	0.166	71.3	55 56 58	51 1626
3719	8.1	42 51.73	3.6567	0.0539	52 55 41.9	18.929	0.168	75.3	399 400 401 402	53 1436
3720	8.3	43 11.52	3.6445	0.0528	52 27 38.1	18.938	0.167	79.3	5 obs. [4]	52 1514
3721	8.7	10 43 33.63	+3.6865	−0.0578	+ 54 31 37.8	−18.949	−0.168	75.3	401 402 403 404	54 1400
3722	8.9	43 50.78	3.5935	0.0475	50 5 0.5	18.957	0.163	74.3	173 399 400	50 1770
3723	8.9	43 58.50	3.6220	0.0508	51 37 15.5	18.961	0.164	71.3	55 56	51 1628
3724	9.0	44 1.26	3.6871	0.0582	54 42 44.3	18 962	0.167	77.3	538 539	54 1401
3725	9.4	44 3.88	3.6423	0.0531	52 39 26.2	18.963	0.164	71.3	51 54	52 1516
3726	8.1	10 44 8.04	+3.6072	−0.0492	+ 50 55 1.2	−18.965	−0.163	80.0 81.7	6 obs. [5]	51 1629
3727	9.2	44 13.13	3.6431	0.0533	52 45 5.0	18.968	0.164	76.1	5 obs. [6]	52 1517
3728	8.8	44 31.55	3.6027	0.0490	50 48 59.0	18.977	0.162	75.3	399 400	50 1771
3729	9.2	44 40.76	3.6841	0.0594	54 48 18.5	18.981	0.165	77.3	538 539	54 1402
3730	6.5	44 43.61	3.6035	0.0492	50 55 50.3	18.982	0.161	71.3	55 56	51 1632
3731	9.0	10 44 44.02	+3.6202	−0.0510	+ 51 47 49.8	−18.982	−0.163	77.5	402 646 648 649	51 1631
3732	7.4	44 59.38	3.6474	0.0543	53 13 43.6	18.990	0.163	77.3	538 540 541 542	53 1439
3733	7.0	45 1.37	3.6459	0.0542	53 10 5.2	18.991	0.163	79.8	403 404 787 788	53 1440
3734	7.0	45 9.57	3.6359	0.0531	52 44 3.7	18.994	0.162	71.3	50 51 54	52 1519
3735	8.9	45 46.38	3.6106	0.0506	51 40 48.7	19.012	0.159	76.5	5 obs. [7]	51 1634
3736	7.6	10 46 8.10	+3.5750	−0.0469	+ 49 53 41.6	−19.022	−0.157	74.0	173 236 399 400	50 1775
3737	8.9	46 23.81	3.5860	0.0483	50 35 57.8	19.029	0.158	76.3	403 404 538 539	50 1776
3738	8.8	46 29.32	3.6416	0.0547	53 29 11.4	19.031	0.159	75.3	401 402	53 1442
3739	9.1	46 31.95	3.5726	0.0468	49 54 14.5	19.033	0.156	78.3	649 650 651	50 1777
3740	9.0	46 48.88	3.6094	0.0512	51 59 44.3	19.040	0.157	71.3	47 50 51 54	52 1521
3741	8.8	10 47 11.45	+3.6273	−0.0535	+ 53 2 30.9	−19.051	−0.157	78.3 78.9	6 obs. [8]	53 1443
3742	8.2	47 11.80	3.6522	0.0565	54 14 36.5	19.051	0.158	75.3	401 402	54 1404
3743	8.1	47 33.04	3.6196	0.0529	52 47 12.3	19.060	0.156	71.3	47 50	52 1522
3744	8.3	47 49.78	3.5943	0.0501	51 34 54.3	19.068	0.154	71.3	45 55 56	51 1636
3745	9.4	48 42.61	3.5652	0.0474	50 18 13.7	19.092	0.150	74.6	236 399 400	50 1780
3746	8.2	10 49 10.82	+3.6280	−0.0551	+ 53 48 45.8	−19.104	−0.153	75.3	401 402	53 1444
3747	8.8	49 13.76	3.6390	0.0564	54 21 45.9	19.106	0.153	75.3	403 404	54 1405
3748	7.8	49 20.78	3.6076	0.0527	52 50 58.8	19.109	0.152	71.3	47 50 51 54	52 1526
3749	8.6	49 33.80	3.6098	0.0532	53 2 32.3	19.114	0.151	80.8	538 539 787 788	53 1445
3750	9.4	49 34.44	3.5751	0.0490	51 11 31.4	19.115	0.149	71.3	45 55 56 58	51 1638

[1] Z. 173 294 295 538α 539 540 [2] Z. 173 295 399 400 401 402 787 788 [3] Z. 173 236 295 399 400
[4] Z. 236 536 537 787 788 [5] Z. 42α 58 787 788 789 790 [6] Z. 236 403 535 536 537
[7] Z. 45 55 56 787 788 [8] Z. 399 400 403 404α 787 788

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3751	9.1	10h 49m 34.s71	+3.s6105	−0.s0532	+ 53° 5′ 9.″1	−19.″115	−0.″151	82.0	6 obs. [1]	53° 1446
3752	8.8	49 37.26	3.6211	0.0546	53 38 4.6	19.116	0.151	77.9	540 646 647	53 1447
3753	9.1	49 50.41	3.6182	0.0544	53 34 26.2	19.122	0.151	75.3	399 400	53 1448
3754	7.4	50 34.85	3.5850	0 0509	52 7 32.7	19.141	0.148	72.6	6 obs. [2]	52 1527
3755	8.2	50 39.94	3.6028	0.0531	53 6 11.4	19.143	0.148	75.3	399 400	53 1450
3756	8.6	10 50 42.06	+3.5706	−0 0493	+ 51 22 49.9	−19.144	−0.147	71.3	45 55 56 58	51 1640
3757	9.1	51 42.48	3.5411	0.0465	50 3 58.2	19.170	0.143	77.5	6 obs. [3]	50 1782
3758	8.8	51 48.58	3.5677	0.0497	51 39 16.0	19.173	0.144	73.3	45 55 401 402	51 1642
3759	6.0	51 54.28	3.5833	0.0517	52 33 4.0	19.175	0.145	71.3	47 50 51 54	52 1528
3760	8.8	52 25.08	3.5864	0.0524	52 55 28.2	19.189	0.144	77.3	538 539	53 1453
3761	8.0	10 52 26.36	+3.5634	−0.0494	+ 51 34 45.8	−19.189	−0.143	84.3	789 790	51 1643
3762	9.7	52 33.68	3.5499	0.0481	50 55 45.6	19.192	0.142	78.3 75.3	399 400 788α	51 1644
3763	8.6	53 2.32	3.6004	0.0546	53 54 18.8	19.204	0.143	77.9	540 646 647	54 1407
3764	6.2	53 3.99	3.5680	0.0506	52 10 20.6	19.205	0.142	71.3	47 50	52 1529
3765	8.9	53 9.80	3.5660	0.0504	52 5 51.6	19.207	0.141	71.3	51 54	52 1530
3766	9.0	10 53 20.36	+3.6199	−0.0574	+ 55 0 22.2	−19.212	−0.143	84.3	789 790	55 1435
3767	9.3	53 42.11	3.5305	0.0465	50 13 48.0	19.221	0.139	74.7	5 obs. [4]	50 1786
3768	8.7	53 45.76	3.6073	0.0561	54 32 42.6	19.222	0.142	77.3	538 539 540	54 1408
3769	9.6	53 57.87	3.5274	0.0463	50 8 55.9	19.227	0.139	84.3	787 788	50 1787
3770	9.0	54 9.26	3.5724	0.0520	52 51 17.1	19.232	0.139	71.3	47 50 51 54	52 1533
3771	6.7	10 54 12.18	+3.5815	−0.0532	+ 53 22 26.7	−19.233	−0.140	77.3	539 540 542	53 1455
3772	8.6	54 23.92	3.5266	0.0465	50 16 49.0	19.238	0.137	74.0	173 236 399 400	50 1788
3773	7.8	55 5.47	3.5842	0.0542	53 52 49.0	19.255	0.138	75.3	401 402	53 1457
3774	9.1	55 40.18	3.5281	0.0476	50 54 32.2	19.269	0.134	71.2	42 45 55 56	51 1646
3775	8.4	55 40.24	3.5629	0.0519	52 57 13.6	19.269	0.136	75.3	399 400 401 402	53 1458
3776	9.0	10 56 47.18	+3.5556	−0.0519	+ 53 0 26.6	−19.296	−0.133	75.3	399 400 401 402	53 1459
3777	7.6	58 32.48	3.5693	0.0551	54 31 30.8	19.337	0.130	77.0	469 538 539	54 1414
3778	7.0	58 32.62	3.5073	0.0470	50 50 50.4	19.338	0.127	71.3	60 61	50 1793
3779	9.0	58 33.26	3.5343	0.0505	52 31 45.4	19.338	0.128	74.0	50 399 400	52 1536
3780	7.0	58 35.11	3.5420	0.0515	53 0 3.4	19.338	0.128	75.3	401 402	53 1463
3781	8.4	10 58 35.79	+3.5171	−0.0483	+ 51 29 40.0	−19.339	−0.127	76.5 74.5	5 obs. [5]	51 1648
3782	9.5	58 58.38	3.5230	0.0494	52 1 42.4	19.347	0.127	84.3	787 788	52 1538
3783	9.2	59 7.06	3.5022	0.0468	50 46 23.9	19.351	0.126	75.6	173 236 648 649	50 1794
3784	8.6	59 8.24	3.5221	0.0494	52 2 48.1	19.351	0.126	73.3	51 54 399 400	52 1539
3785	9.0	59 8.47	3.5531	0.0535	53 52 52.8	19.351	0.128	77.3	538 539	53 1464
3786	8.9	10 59 18.89	+3.5590	−0.0544	+ 54 17 25.9	−19.355	−0.128	77.4	540 542	54 1415
3787	8.0	59 29.70	3.5587	0.0545	54 21 19.0	19.359	0.127	77.6	469 646 647	54 1416
3788	8.0	59 45.41	3.5159	0.0490	51 56 22.6	19.365	0.125	71.3	47 50 51 54	52 1540
3789	9.4	11 0 1.44	3.5116	0.0487	51 47 9.4	19.371	0.124	71.3	42 45 55 56	51 1649
3790	8.9	0 22.01	3.5410	0.0529	53 43 38.5	19.379	0.124	75.3	403 404 405	53 1465
3791	8.1	11 0 24.63	+3.4797	−0.0448	+ 49 51 8.3	−19.380	−0.122	74.6	236 399 400	49 2018
3792	9.5	0 29.34	3.4993	0.0474	51 12 31.8	19.382	0.123	73.6	58 173 401 402	51 1650
3793	9.3	0 30.10	3.5529	0.0546	54 28 17.4	19.382	0.125	77.3	469 540 647	[54 1418]
3794	9.3	0 43.08	3.5344	0.0523	53 29 54.8	19.387	0.124	77.3	538 539	} 53 1466
3795	8.4	0 43.31	3.5343	0.0523	53 29 50.1	19.387	0.124	77.3	538 539	
3796	9.2	11 1 2.33	+3.5488	−0.0545	+ 54 28 39.9	−19.394	−0.125	84.3	787 788	54 1419
3797	8.8	1 16.50	3.5269	0.0517	53 18 16.2	19.399	0.122	75.3	401 402	53 1468
3798	9.0	1 32.16	3.5406	0.0538	54 14 7.8	19.405	0.122	75.3	399 400	54 1420
3799	8.5	1 41.07	3.5498	0.0553	54 49 41.2	19.408	0.122	75.3	403 404 405	54 1421
3800	8.7	1 50.78	3.5402	0.0541	54 21 17.2	19.412	0.121	77.1	6 obs. [6]	54 1422

[1] Z. 538 539 787 788 789 790 [2] Z. 47 50 51 54 401 402 [3] Z. 173 236 399 400 787 788
[4] Z. 173 399 400 401 402 [5] Z. 42 45 58 787 788α [6] Z. 469 538 539 540 541 542

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3801	7.0	11h 2m 3.00	+3.5012	−0.0489	+ 52° 3′ 19.8	−19.416	−0.119	71.3	47 50	52° 1541
3802	6.9	2 28.76	3.5426	0.0550	54 47 0.7	19.426	0.120	75.5	6 obs. [1]	54 1425
3803	9.5	3 3.88	3.4875	0.0479	51 38 8.7	19.439	0.117	71.3	55 56 58	51 1651
3804	9.9	3 14.11	3.4596	0.0442	49 45 40.7	19.442	0.115	75.3	401 402	[49 2024]
3805	8.5	3 28.82	3.4620	0.0447	50 3 14.9	19.447	0.115	73.6	60 173 399 400	50 1797
3806	8.8	11 4 7.59	+3.5122	−0.0522	+ 53 44 26.2	−19.461	−0.115	75.4	64 403 404 405	53 1470
3807	9.0	4 8.54	3.4670	0.0459	50 44 25.6	19.462	0.114	75.3	401 402	50 1799
3808	8.9	4 11.84[2]	3.5074	0.0516	53 28 15.3	19.463	0.115	82.3 81.2	646δ 647 789 790	53 1472
3809	9.6	4 11.94	3.4992	0.0504	52 57 13.6	19.463	0.115	77.3	538 539	53 1471
3810	6.7	4 15.08	3.5292	0.0547	54 49 34.3	19.464	0.116	77.1	469 540 541 542	54 1426
3811	8.4	11 4 37.96	+3.4933	−0.0500	+ 52 46 41.7	−19.472	−0.114	71.3	47 50	52 1545
3812	8.9	4 40.18	3.4995	0.0508	53 12 2.2	19.473	0.114	78.3	648 649	53 1473
3813	9.2	4 41.62	3.5102	0.0524	53 53 19.6	19.473	0.114	77.3	538 539	53 1474
3814	9.4	4 47.24	3.4766	0.0478	51 43 48.0	19.475	0.113	75.3	399 400	[51 1652]
3815	8.4	4 59.54	3.4758	0.0478	51 46 50.0	19.479	0.112	71.7	58 64 173	51 1653
3816	9.4	11 5 0.11	+3.5195	−0.0540	+ 54 36 33.9	−16.480	−0.113	75.3	403 404	54 1427
3817	9.1	5 22.56	3.4723	0.0476	51 43 26.4	19.487	0.111	84.3	789 790	51 1654
3818	9.1	5 27.32	3.4572	0.0456	50 41 16.9	19.489	0.111	73.8	60 236 401 402	50 1801
3819	8.5	5 51.10	3.5038	0.0525	54 3 2.1	19.497	0.111	75.3	403 404 405	54 1428
3820	9.0	5 54.97	3.4628	0.0467	51 19 31.8	19.498	0.109	71.3	55 56	51 1655
3821	8.6	11 6 3.50	+3.4456	−0.0445	+ 50 8 22.2	−19.501	−0.109	75.3	399 400	50 1802
3822	7.8	6 23.25	3.4915	0.0513	53 31 51.1	19.508	0.110	74.7	6 obs. [3]	53 1476
3823	8.8	6 30.66	3.4660	0.0477	51 51 25.3	19.510	0.109	77.8 80.0	56α 58 789 790	51 1656
3824	7.5	6 41.28	3.4466	0.0451	50 32 8.7	19.514	0.108	72.6	60 173 236 237	50 1803
3825	8.0	7 21.23	3.4856	0.0513	53 37 42.1	19.527	0.108	74.7	6 obs. [4]	53 1479
3826	8.6	11 8 51.43	+3.4714	−0.0506	+ 53 27 20.6	−19.557	−0.104	73.3	60 64 401 402	53 1480
3827	6.9	8 51.78	3.4714	0.0506	53 27 8.1	19.557	0.104	74.2	7 obs. [5]	
3828	8.8	8 51.92	3.4418	0.0462	51 19 18.0	19.557	0.103	71.8	55 56 58 237	51 1658
3829	**6.0**	**9 38.72**	**3.4215**	**0.0439**	**50 9 29.5**	**19.572**	**0.100**		**Fund. Cat.**	**50 1807**
3830	9.1	9 54.57	3.4256	0.0448	50 38 15.8	19.577	0.099	74.0	60 401 402	50 1809
3831	8.5	11 10 8.30	+3.4396	−0.0470	+ 51 50 41.1	−19.581	−0.100	71.3	55 56	51 1659
3832	9.0	10 29.43	3.4254	0.0453	50 56 24.6	19.588	0.099	71.4	58 63 64	51 1660
3833	8.6	10 31.33	3.4106	0.0430	49 45 33.6	19.589	0.098	77.3	539 540 541 542	49 2036
3834	9.2	10 31.65	3.4165	0.0439	50 14 53.7	19.589	0.098	74.7	5 obs. [6]	50 1810
3835	8.4	11 53.18	3.4287	0.0470	51 59 10.5	19.614	0.096	75.3	401 402	52 1554
3836	8.0	11 12 3.20	+3.4110	−0.0444	+ 50 39 26.6	−19.617	−0.095	74.9	5 obs. [7]	50 1811
3837	9.0	12 16.07	3.4576	0.0519	54 20 40.0	19.621	0.096	77.1	469 540 541 542	54 1436
3838	9.6	12 22.08	3.4380	0.0489	52 58 27.9	19.623	0.095	77.3	538 539	53 1484
3839	9.6	12 32.30	3.4074	0.0443	50 38 23.5	19.626	0.094	76.0	173 404 646 647	50 1812
3840	8.6	12 36.75	3.4015	0.0434	50 11 21.4	19.627	0.094	75.0	296 401 402	50 1814
3841	7.4	11 13 55.24	+3.4196	−0.0475	+ 52 26 55.8	−19.650	−0.090	74.8	296 297 401 402	52 1558
3842	9.4	14 32.35	3.4282	0.0495	53 29 44.2	19.661	0.090	71.4	63 64	53 1485
3843	9.0	14 46.52	3.4232	0.0489	53 14 32.2	19.665	0.089	74.3	296 297	53 1486
3844	9.2	14 52.41	3.3879	0.0434	50 21 20.5	19.667	0.088	71.6	60 61 173	50 1816
3845	8.9	14 56.24	3.3991	0.0452	51 22 22.5	19.668	0.088	73.3	5 obs. [8]	51 1662
3846	9.2	11 15 57.44	+3.3824	−0.0435	+ 50 32 19.7	−19.685	−0.086	71.3	60 61	50 1817
3847	8.6	16 34.72	3.3965	0.0464	52 10 23.5	19.695	0.085	74.0	236 296 297	52 1560
3848	7.8	16 47.45	3.4015	0.0475	52 43 35.8	19.699	0.085	73.4	63 64 401 402	52 1561
3849	8.7	17 9.46	3.3690	0.0424	50 3 41.8	19.705	0.083	71.6	60 61 173	50 1818
3850	9.4	17 30.80	3.3955	0.0476	52 40 59.9	19.711	0.083	80.6	236 789 790	52 1562

[1] Z. 399 400 403 404 405 469 [2] [11.46] 11.80 11.84 11.88 [3] Z. 64 401 402 403 404 405
[4] Z. 64 401 402 403 404 405 [5] Z. 60 64 401 402 403 404 405 [6] Z. 173 401 402 404 405
[7] Z. 60 61 405 646 647 [8] Z. 55 56 236 401 402

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3851	9.1	11h 17m 34.s52	+3.s4192	−0.s0514	+ 54° 39′ 18.″4	−19.″712	−0.″083	74.3	296 297	54° 1439
3852	8.6	18 17.02	3.3731	0.0442	51 11 2.2	19.723	0.080	71.3	55 56 57 58	51 1663
3853	8.0	18 21.07	3.3608	0.0422	50 3 47.6	19.724	0.080	72.0	60 61 173 236	50 1820
3854	7.9	18 56.00	3.3864	0.0472	52 49 9.8	19.733	0.080	71.4	63 64	52 1563
3855	9.4	18 58.07	3.3542	0.0417	49 49 38.0	19.734	0.079	77.3	539 540 541	49 2051
3856	9.6	11 19 10.39	+3.4011	−0.0500	+ 54 14 0.6.	−19.737	−0.079	74.3	296 297	54 1441
3857	9.1	19 14.71	3.3649	0.0438	51 3 30.8	19.738	0.078	71.3	55 56 57	51 1664
3858	8.9	21 28.67	3.3373	0.0413	49 50 46.0	19.772	0.073	77.3	540	49 2056
3859	9.6	21 52.89	3.3575	0.0453	52 11 23.0	19.777	0.072	73.4	236 237	52 1567
3860	9.6	22 7.59	3.3479	0.0439	51 24 58.5	19.781	0.072	71.3	55 56	51 1667
3861	8.8	11 22 14.24	+3.3426	−0.0430	+ 50 57 1.5	−19.783	−0.071	74.0	57 404 405	51 1668
3862	9.7	22 19.49	3.3329	0.0414	49 59 22.6	19.784	0.071	73.1	60 173 296 297	50 1824
3863	8.7	22 27.55	3.3314	0.0413	49 55 47.0	19.786	0.071	77.2	6 obs. [1]	50 1826
3864	8.8	22 46.32	3.3382	0.0428	50 53 25.8	19.790	0.070	71.3	55 56	51 1670
3865	8.8	22 49.46	3.3788	0.0505	54 50 16.9	19.791	0.071	75.4	404 405	54 1445
3866	8.8	11 23 31.34	+3.3566	−0.0472	+ 53 18 36.2	−19.801	−0.069	73.7	6 obs. [2]	53 1492
3867	8.9	24 8.71	3.3390	0.0445	52 0 52.7	19.809	0.067	71.3	52 54	52 1568
3868	9.4	25 44.90	3.3104	0.0409	50 6 24.5	19.831	0.063	73.3	60 296 297	50 1830
3869	8.2	26 0.20	3.3093	0.0410	50 11 12.2	19.834	0.063	75.6	173 236 648 649	50 1832
3870	8.6	26 2.85	3.3289	0.0449	52 26 32.2	19.835	0.063	71.3	52 54	52 1570
3871	8.7	11 26 2.91	+3.3362	−0.0464	+ 53 12 50.6	−19.835	−0.063	76.2	5 obs. [3]	53 1497
3872	8.8	26 23.28	3.3063	0.0409	50 8 48.2	19.839	0.062	74.3	296 297	50 1835
3873	8.9	26 55.61	3.3057	0.0414	50 31 17.3	19.846	0.061	71.6	60 61 173	50 1836
3874	8.0	27 14.39	3.3389	0.0486	54 27 58.9	19.850	0.061	73.4	63 64 404 405	54 1447
3875	9.6	27 15.62	3.3192	0.0446	52 22 18.4	19.850	0.060	71.3	52 54	52 1572
3876	8.6	11 27 46.84	+3.3157	−0.0446	+ 52 25 35.8	−19.856	−0.059	72.3	6 obs. [4]	52 1573
3877	7.8	27 52.76	3.3170	0.0450	52 39 29.6	19.858	0.059	73.4	236 237	52 1574
3878	9.4	27 57.22	3.2960	0.0407	50 13 7.8	19.858	0.058	71.3	60 61	50 1837
3879	8.9	28 5.60	3.2918	0.0400	49 47 50.8	19.860	0.058	77.4	540 541 543 544	49 2068
3880	8.4	28 34.82	3.3262	0.0479	54 15 43.0	19.866	0.058	71.4	63 64	54 1450
3881	8.8	11 28 45.94	+3.3277	−0.0485	+ 54 34 52.8	−19.868	−0.057	75.4	404 405	54 1451
3882	8.9	28 51.35	3.2911	0.0408	50 23 40.0	19.869	0.056	72.7	5 obs. [5]	50 1839
3883	9.2	30 0.76	3.3045	0.0453	53 5 22.9	19.883	0.054	73.4	63 64 404 405	53 1499
3884	9.8	30 10.62	3.2832	0.0408	50 34 11.2	19.885	0.054	72.3	60 237	50 1841
3885	9.0	30 12.07	3.2810	0.0404	50 17 19.1	19.885	0.053	74.3	296 297	50 1842
3886	7.4	11 30 20.01	+3.2919	−0.0429	+ 51 50 49.7[6]	−19.886	−0.053	71.3	55 56 57α 58	51 1677
3887	9.1	30 30.29	3.2944	0 0437	52 19 10.2	19.888	0.053	72.5	5 obs. [7]	52 1575
3888	8.2	31 5.59	3.2763	0.0405	50 30 8.5	19.895	0.052	71.3	60 61	50 1845
3889	5.9	31 6.72	3.2821	0.0418	51 18 38.4	19.895	0.052	76.3	173 648 649	51 1679
3890	9.0	31 14.32	3.2922	0.0443	52 43 55.4	19.897	0.052	74.3	296 297	52 1576
3891	9.8	11 31 16.32[8]	+3.2792	−0.0414	+ 51 4 18.2	−19.897	−0.051	84.6	790 792 793δ 861	51 1680
3892	8.4	31 20.42	3.2732	0.0402	50 19 9.2	19.898	0.051	73.4	236 237	50 1846
3893	9.2	32 28.64	3.2621	0.0392	49 51 7.7	19.910	0.049	78.3	650 652	49 2074
3894	9.9	32 33.20	3.2877	0.0454	53 26 46.7	19.911	0.049	77.0	64 404 789	53 1502
3895	9.4	32 35.05	3.2617	0.0393	49 53 59.6	19.911	0.048	74.3	296 297	50 1848
3896	8.4	11 32 37.72	+3.2827	−0.0443	+ 52 52 45.1	−19.911	−0.048	74.4 74.9	6 obs. [9]	52 1578
3897	9.1	32 48.08	3.2938	0.0472	54 27 29.8	19.913	0.048	78.3	648 649	54 1453
3898	8.4	33 31.69	3.2763	0.0442	52 56 25.6	19.921	0.046	72.8	63 64 296 297	53 1503
3899	9.2	34 15.76	3.2493	0.0387	49 45 40.1	19.928	0.045	78.3	648 649	49 2077
3900	9.4	34 43.98	3.2714	0.0450	53 33 28.4	19.932	0.044	72.8	63 64 296 297	53 1504

[1] Z. 469 538 539 541 543 544 [2] Z. 63 64 296 297 404 405 [3] Z. 63 540 541 543 544
[4] Z. 52 54 59 65 296 297 [5] Z. 60 61 173 296 297 [6] 49.″0 50.″0 [38.″9] 50.″0
[7] Z. 52 54 59 65 540 [8] 16.″24 16.″45 [15.″86] 16.″26 [9] Z. 52 59 65α 540 543 544

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
3901	8.4	11h 34m 47s.24	+3s.2647	−0s.0434	+ 52° 40′ 30″.2	−19″.933	−0″.044	72.4	6 obs. [1]	52° 1581
3902	9.5	34 50.66	3.2802	0.0475	54 50 47.0	19.934	0.044	76.3	405 469 540	54 1454
3903	9.2	35 42.14	3.2692	0.0462	54 18 58.4	19.942	0.042	77.1	469 540 543 544	54 1455
3904	7.6	36 6.65	3.2419	0.0398	50 39 10.6	19.945	0.041	71.3	60 61	50 1852
3905	8.6	36 18.98	3.2528	0.0430	52 37 10.4	19.947	0.040	72.9	52 237 238 239	52 1582
3906	8.6	11 36 36.50	+3.2423	−0.0407	+ 51 18 12.3	−19.950	−0.040	71.3	55 56 57 58	51 1684
3907	7.4	37 4.74	3.2500	0.0436	53 5 17.5	19.954	0.039	73.7	6 obs. [2]	53 1506
3908	9.1	37 5.82	3.2355	0.0397	50 45 3.6	19.954	0.038	73.0	60 173 296 297	50 1853
3909	8.7	37 8.43	3.2467	0.0428	52 39 16.3	19.955	0.039	72.2	5 obs. [3]	52 1583
3910	9.4	37 24.22	3.2419	0.0420	52 11 51.0	19.957	0.038	78.3	648 649	52 1584
3911	9.0	11 37 39.57	+3.2375	−0.0412	+ 51 47 17.5	−19.959	−0.037	71.3	55 56 57 58	51 1687
3912	9.1	37 57.32	3.2513	0.0457	54 21 26.4	19.962	0.037	74.4	298 299	54 1459
3913	9.1	37 58.98	3.2283	0.0393	50 35 45.9	19.962	0.037	73.1	60 61 296 406	50 1854
3914	9.1	38 1.34	3.2283	0.0393	50 38 6.5	19.962	0.037	73.4	5 obs. [4]	50 1855
3915	8.9	38 21.13	3.2505	0.0463	54 43 10.8	19.965	0.036	75.8	405 469	54 1460
3916	8.0	11 38 30.82	+3.2486	−0.0461	+ 54 38 32.9	−19.966	−0.036	80.8	8 obs. [5]	54 1461
3917	9.1	38 50.86	3.2458	0.0460	54 37 32.9	19.969	0.035	82.3 81.3	6 obs. [6]	54 1462
3918	8.6	38 55.57	3.2442	0.0457	54 28 49.9	19.970	0.035	75.4	404 405	54 1463
3919	9.2	39 4.31	3.2256	0.0405	51 30 44.3	19.971	0.034	71.3	55 56	51 1692
3920	9.2	39 8.32	3.2200	0.0390	50 33 28.2	19.971	0.034	72.8	60 61 296 297	50 1856
3921	7.4	11 39 29.69	+3.2211	−0.0400	+ 51 15 27.2	−19.974	−0.033	71.7	63 64 173	51 1693
3922	8.9	39 34.08	3.2304	0.0429	53 2 34.8	19.975	0.033	74.4	298 299	53 1508
3923	7.6	39 45.06	3.2267	0.0422	52 37 36.2	19.976	0.033	71.3	52 54 59 65	52 1587
3924	9.0	39 50.11	3.2188	0.0400	51 17 12.3	19.977	0.033	71.3	55 56	51 1694
3925	9.3	40 0.90	3.2205	0.0408	51 51 18.1	19.978	0.032	73.4	237 238 239	51 1695
3926	9.0	11 40 21.01	+3.2297	−0.0444	+ 53 58 51.2	−19.981	−0.032	75.1	296 297 406 469	54 1464
3927	9.1	40 24.56	3.2073	0.0376	49 47 19.1	19.981	0.032	77.4	540 543 544	49 2083
3928	9.0	40 33.01	3.2146	0.0401	51 28 50.7	19.982	0.031	71.3	55 56 57	51 1698
3929	9.8	40 56.70	3.2236	0.0438	53 44 27.5	19.985	0.030	84.3	789 790	53 1510
3930	6.8	41 12.66	3.2051	0.0385	50 31 1.2	19.987	0.030	72.6	5 obs. [7]	50 1862
3931	8.2	11 41 13.61	+3.2212	−0.0437	+ 53 42 33.6	−19.987	−0.030	72.9	63 64 298 299	53 1511
3932	9.7	41 59.25	3.2163	0.0439	53 54 57.0	19.992	0.028	78.5	5 obs. [8]	54 1467
3933	8.8	43 16.62	3.1881	0.0372	49 55 35.4	20.001	0.025	71.3	60 61	50 1864
3934	8.1	43 26.04	3.2076	0.0446	54 30 18.8	20.002	0.025	72.9	63 64 298 299	54 1468
3935	9.0	43 26.74	3.1876	0.0374	50 4 58.4	20.002	0.025	73.4	237 238 239	50 1865
3936	7.3	11 43 36.13	+3.2085	−0.0453	+ 54 56 48.2	−20.003	−0.025	78.3	648 649	55 1491
3937	8.9	44 7.38	3.2004	0.0438	54 10 14.0	20.006	0.024	75.0	296 297 469	54 1470
3938	7.3	44 15.26	3.1902	0.0403	52 6 27.8	20.007	0.024	71.3	52 54	52 1590
3939	8.7	44 51.44	3.1983	0.0450	54 59 25.5	20.010	0.022	78.3	651 652 653	55 1494
3940	9.5	45 5.35	3.1786	0.0380	50 44 11.8	20.012	0.022	72.7	61 238 239	50 1870
3941	8.6	11 45 10.86	+3.1856	−0.0410	+ 52 41 12.6	−20.012	−0.022	71.3	52 54	52 1591
3942	8.9	45 21.32	3.1774	0.0382	50 56 11.6	20.013	0.021	71.3	5 obs. [9]	51 1706
3943	9.2	45 29.91	3.1931	0.0449	55 1 19.6	20.014	0.021	81.3	648 649 791 792	55 1495
3944	9.3	45 37.04	3.1770	0.0387	51 18 50.6	20.015	0.020	71.4	63 64	51 1707
3945	9.3	45 38.03	3.1892	0.0438	54 23 5.2	20.015	0.021	74.3	296 297	54 1472
3946	7.4	11 45 41.14	+3.1739	−0.0377	+ 50 37 32.9	−20.015	−0.020	73.4	237 239	50 1871
3947	8.6	45 47.64	3.1883	0.0439	54 28 47.0	20.016	0.020	75.0	298 299 469	54 1473
3948	9.2	46 21.24	3.1674	0.0368	50 5 29.9	20.019	0.019	71.3	60 61	50 1872
3949	9.1	46 26.34	3.1824	0.0434	54 19 49.4	20.019	0.019	74.4	298 299	54 1474
3950	9.3	46 58.25	3.1623	0.0363	49 50 29.5	20.022	0.018	77.4	540 543 544	49 2090

[1] Z. 52 59 65 237 238 239
[2] Z. 63 64 298 299 406 407
[3] Z. 52 59 65 238 239
[4] Z. 173 237 238 239 297
[5] Z. 406 540 648 649 789 790 791 792
[6] Z. 648 649 790α 791 792 793α
[7] Z. 60 61 237 238 239
[8] Z. 297 299 406 791 792
[9] Z. 55 56 57 58 65

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B.D.
3951	2.3	11h 47m 14s.85	+3s.1761	−0s.0433	+ 54° 23′ 23″.0	−20″.023	−0″.017		Fund. Cat.	54° 1475
3952	9.2	47 27.08	3.1592	0.0363	49 54 28.7	20.024	−0.017	74.3	296 297	50 1874
3953	9.4	47 42.95	3.1711	0.0426	54 3 53.0	20.025	−0.016	77.8	6 obs. [1]	54 1477
3954	8.1	48 6.51	3.1710	0.0440	54 56 1.4	20.027	−0.015	78.3	648 649	55 1496
3955	9.8	48 18.39	3.1666	0.0426	54 8 24.9	20.028	−0.015	81.8	299 791 792 793	54 1478
3956	8.6	11 48 30.36	+3.1601	−0.0401	+ 52 39 6.3	−20.029	−0.015	74.3	296 297	52 1595
3957	8.6	48 58.02	3.1537	0.0385	51 42 6.8	20.031	−0.014	71.3	57 58	51 1713
3958	9.6	49 0.84	3.1600	0.0420	53 52 47.2	20.031	−0.014	73.4	64 298 299	53 1513
3959	8.9	50 14.72	3.1433	0.0377	51 18 25.9	20.036	−0.011	71.3	57 58 59 65	51 1714
3960	8.2	50 19.90	3.1492	0.0415	53 47 17.1	20.036	−0.011	71.4	63 64	53 1516
3961	9.0	11 50 21.48	+3.1397	−0.0360	+ 50 11 12.8	−20.036	−0.011	71.3	60 61	50 1875
3962	8.3	50 23.05	3.1466	0.0401	52 58 2.4	20.037	−0.011	74.4	298 299	53 1517
3963	9.3	50 38.28	3.1474	0.0418	54 1 16.9	20.037	−0.010	73.3	66 296 297	54 1479
3964	8.6	51 0.88	3.1450	0.0420	54 15 0.5	20.039	−0.009	77.0	469 543 544	54 1480
3965	9.5	51 14.38	3.1348	0.0366	50 45 23.6	20.040	−0.009	77.7	5 obs. [2]	50 1876
3966	8.9	11 51 31.63	+3.1324	−0.0364	+ 50 36 25.2	−20.040	−0.008	71.3	60 61	50 1877
3967	8.7	51 34.57	3.1421	0.0430	54 52 52.6	20.041	−0.008	72.6	5 obs. [3]	54 1481
3968	9.5	52 40.13	3.1240	0.0358	50 24 41.4	20.044	−0.006	73.0 73.4	6 obs. [4]	50 1879
3969	8.3	53 21.73	3.1258	0.0412	54 5 39.0	20.046	−0.005	71.4	63 64 66	54 1482
3970	9.2	53 22.73	3.1212	0.0376	51 45 37.8	20.046	−0.005	71.3	57 58 59 65	51 1718
3971	8.6	11 53 24.68	+3.1220	−0.0384	+ 52 18 36.7	−20.046	−0.005	74.0	52 406 407	52 1600
3972	9.4	53 25.91[5]	3.1223	0.0388	52 34 41.7	20.046	−0.005	84.3 81.0	297δ 791 792	52 1599
3973	9.0	53 26.58	3.1247	0.0408	53 53 24.8	20.046	−0.005	75.0	298 299 469	54 1483
3974	8.5	53 32.30	3.1213	0.0386	52 28 2.2	20.046	−0.004	76.4	300 543 544	52 1601
3975	9.2	53 59.55	3.1138	0.0348	49 52 7.6	20.047	−0.003	83.1	544 792 861 862	49 2102
3976	8.6	11 54 1.14	+3.1142	−0.0354	+ 50 16 46.2	−20.047	−0.003	71.3	60 61	50 1881
3977	9.0	54 48.14	3.1132	0.0399	53 30 7.3	20.049	−0.002	71.4	63 64	53 1520
3978	9.1	54 54.75	3.1142	0.0418	54 43 17.2	20.049	−0.002	77.8	5 obs. [6]	54 1484
3979	9.2	55 31.11	3.1090	0.0414	54 36 15.4	20.050	0.000	74.2	66 300 406 407	54 1485
3980	9.4	55 43.36	3.1056	0.0391	53 10 14.8	20.051	0.000	73.4	63 298 299	53 1521
3981	8.6	11 55 52.83	+3.1030	−0.0374	+ 52 2 25.8	−20.051	−0.000	74.3	296 297	52 1603
3982	9.2	56 46.53	3.0947	0.0345	50 5 24.3	20.052	+0.002	74.0	5 obs. [7]	50 1887
3983	9.1	58 8.24	3.0856	0.0353	50 56 0.6	20.054	+0.005	74.4	298 299	51 1723
3984	9.6	58 9.07	3.0859	0.0364	51 45 41.8	20.054	+0.005	77.4	300 406 648 649	51 1722
3985	8.0	58 17.90	3.0863	0.0410	54 47 34.4	20.054	+0.005	71.4	66 69	54 1488
3986	7.6	11 58 37.80	+3.0821	−0.0353	+ 50 58 46.7	−20.054	+0.006	77.8	543 544 648 649	51 1725
3987	8.8	58 38.74	3.0823	0.0366	51 56 30.2	20.054	+0.006	74.4	298 299	52 1607
3988	8.0	59 12.44	3.0783	0.0374	52 37 37.8	20.054	+0.007	74.4	300 301	52 1608
3989	8.7	59 13.30	3.0782	0.0374	52 37 38.0	20.054	+0.007	74.4	300 301	
3990	8.1	59 13.76	3.0783	0.0388	53 34 13.6	20.054	+0.007	73.4	63 64 408 409	53 1525
3991	8.2	11 59 21.63	+3.0768	−0.0343	+ 50 22 40.2	−20.054	+0.007	73.4	238 239	50 1891
3992	7.8	59 24.64	3.0770	0.0397	54 10 48.0	20.054	+0.008	77.9	66 69 793 794	54 1489
3993	8.8	59 27.84	3.0766	0.0403	54 36 51.6	20.054	+0.008	75.4	406 407	54 1491
3994	8.4	59 34.37	3.0753	0.0350	50 59 18.5	20.054	+0.008	74.4	298 299	51 1726
3995	7.1	59 45.90	3.0739	0.0336	49 51 13.8	20.054	+0.008	78.3	652 653	49 2110
3996	8.8	12 0 32.55	+3.0681	−0.0368	+ 52 25 52.1	−20.054	+0.010	74.4	7 obs. [8]	52 1609
3997	8.7	2 1.73	3.0571	0.0358	51 58 1.8	20.054	+0.012	74.1	7 obs. [9]	52 1611
3998	8.8	2 33.73	3.0537	0.0345	51 6 58.6	20.053	+0.014	73.4	238 239	51 1728
3999	7.3	2 34.65	3.0544	0.0330	49 52 52.6	20.053	+0.014	78.3	649 651	49 2116
4000	8.1	2 45.30	3.0498	0.0390	54 22 4.9	20.053	+0.014	71.4	66 69	54 1492

[1] Z. 469 543 650 651 652 653
[2] Z. 406 469 651 652 653
[3] Z. 63 64 66 298 299
[4] Z. 60 61α 238 239 298 299
[5] Z. [25s.27] 25s.89 25s.93
[6] Z. 66 298 299 791 792
[7] Z. 238 239 298 299 300
[8] Z. 238 239 298 299 300 406 407
[9] Z. 52 54 300 406 407 408 409

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4001	9.6	12h 2m50.77	+3.0518	−0.0342	+ 50°55′ 7.0	−20.053	+0.014	74.4	298 299	51° 1730
4002	8.0	3 1.53	3.0479	0.0385	54 5 38.4	20.052	0.014	75.4	408 409	54 1493
4003	9.0	3 3.26	3.0484	0.0373	53 16 14.6	20.052	0.014	71.4	63 64	53 1530
4004	9.4	3 8.77	3.0490	0.0352	51 43 26.0	20.052	0.015	77.4	300 406 407 792	51 1731
4005	9.0	3 41.78	3.0461	0.0334	50 27 49.4	20.052	0.016	72.4	60 61 238 239	50 1894
4006	8.3	12 3 46.65	+3.0440	−0.0354	+ 52 0 24.8	−20.052	+0.016	71.3	52 54	52 1613
4007	9.3	3 55.51	3.0406	0.0383	54 7 22.8	20.051	0.016	74.1	66 406 407	54 1495
4008	8.9	3 59.67	3.0389	0.0396	55 1 17.4	20.051	0.016	77.4	543 544	55 1513
4009	9.3	4 6.89	3.0395	0.0378	53 47 26.8	20.051	0.016	76.0	63 649 651	53 1531
4010	8.4	4 33.74	3.0395	0.0337	50 51 32.4	20.050	0.017	71.3	60 61	50 1895
4011	8.0	12 4 34.12	+3.0390	−0.0342	+ 51 14 40.2	−20.050	+0.017	74.4	298 299	51 1733
4012	7.6	4 34.37	3.0375	0.0359	52 29 32.7	20.050	0.017	71.3	52 54	52 1614
4013	8.4	4 41.47	3.0337	0.0388	54 35 54.4	20.050	0.018	75.4	406 407	54 1497
4014	7.2	4 50.96	3.0318	0.0394	55 3 18.8	20.050	0.018	77.4	543 544	55 1516
4015	8.4	5 13.72	3.0301	0.0379	54 7 7.3	20.049	0.019	71.4	66 69	54 1499
4016	8.4	12 5 14.80	+3.0299	−0.0379	+ 54 7 16.2	−20.049	+0.019	71.4	66 69	54 1499
4017	9.2	5 21.80	3.0291	0.0378	54 2 17.5	20.049	0.019	75.4	406 407	54 1500
4018	8.6	5 25.41[1]	3.0324	0.0344	51 31 57.5	20.049	0.019	72.4	59 62 238 239	51 1734
4019	9.1	5 25.65	3.0324	0.0344	51 31 48.7	20.049	0.019	72.7	65 238 239	
4020	8.2	5 36.36	3.0330	0.0327	50 11 49.4	20.048	0.020	71.3	60 61	50 1898
4021	9.1	12 5 45.21	+3.0297	−0.0346	+ 51 44 15.9	−20.048	+0.020	74.4	298 299	51 1735
4022	9.1	5 46.85	3.0269	0.0368	53 22 5.8[2]	20.048	0.020	76.1 78.4	63α 64 862	53 1532
4023	9.0	6 9.56	3.0237	0.0368	53 29 26.6	20.047	0.020	74.2	69 300 408 409	53 1533
4024	8.8	6 15.09	3.0275	0.0333	50 49 49.8	20.047	0.021	73.4	238 239	50 1899
4025	8.4	6 24.96	3.0261	0.0334	50 58 30.8	20.046	0.021	74.4	298 299	51 1738
4026	7.5	12 6 30.86	+3.0225	−0.0356	+ 52 38 9.0	−20.046	+0.021	73.4	52 54 406 407	52 1617
4027	9.0	7 2.66	3.0196	0.0346	52 0 25.8	20.045	0.022	74.9	300 301 408 409	52 1618
4028	8.6	7 18.56	3.0137	0.0371	53 55 33.4	20.044	0.023	73.7	6 obs. [3]	54 1501
4029	8.4	8 19.15	3.0086	0.0351	52 40 35.2	20.041	0.025	74.4	6 obs. [4]	52 1619
4030	6.6	8 31.21	3.0035	0.0370	54 7 50.3	20.040	0.025	76.2	69 298 299 794	54 1504
4031	9.3	12 8 42.35	+3.0098	−0.0338	+ 50 52 14.6	−20.040	+0.025	71.3	60 61	50 1901
4032	9.2	8 49.86	3.0013	0.0368	54 0 58.9	20.039	0.026	75.3	406 407	54 1506
4033	9.3	9 7.08	2.9984	0.0370	54 13 55.3	20.038	0.026	75.4	408 409	54 1507
4034	7.6	9 14.73	2.9996	0.0359	53 24 44.4	20.038	0.026	72.9	63 64 300 301	53 1535
4035	9.1	9 34.94	3.0045	0.0321	50 29 36.8	20.037	0.027	74.4	298 299	50 1903
4036	9.0	12 9 35.56	+2.9937	−0.0373	+ 54 32 53.8	−20.037	+0.027	78.2	5 obs. [5]	54 1508
4037	9.4	11 16.26	2.9814	0.0362	54 6 13.5	20.030	0.030	74.1	6 obs. [6]	54 1509
4038	6.2	11 19.18	2.9818	0.0359	53 53 15.2	20.030	0.030	73.8	5 obs. [7]	54 1510
4039	9.3	11 39.71	2.9790	0.0358	53 53 47.0	20.028	0.031	76.7 79.4	69α 300 793	54 1511
4040	9.4	12 17.78[8]	2.9827	0.0325	51 19 0.5	20.025	0.032	81.1	240 793 862	51 1740
4041	9.6	12 12 32.68	+2.9728	−0.0353	+ 53 39 23.7	−20.024	+0.032	75.4	406 407	53 1536
4042	9.0	12 48.48	2.9771	0.0330	51 51 30.3	20.023	0.033	74.4	298 299	51 1742
4043	8.2	12 58.42	2.9714	0.0345	53 7 59.0	20.022	0.033	73.1	63 64 471	53 1537
4044	8.0	13 4.40	2.9702	0.0346	53 13 48.6	20.022	0.033	75.4	408 409	53 1538
4045	9.4	13 31.27	2.9703	0.0333	52 16 35.5	20.019	0.034	75.4	406 407	52 1622
4046	8.6	12 13 31.98	+2.9598	−0.0367	+ 54 56 5.0	−20.019	+0.034	77.4	543 544	55 1525
4047	9.4	13 33.85	2.9704	0.0331	52 10 20.8	20.019	0.034	79.4	300 793	52 1623
4048	8.8	14 4.82	2.9581	0.0356	54 16 37.6	20.016	0.035	72.9	69 70 298 299	54 1514
4049	8.0	14 6.35	2.9566	0.0360	54 34 22.5	20.016	0.035	75.4	406 407	54 1515
4050	9.3	14 12.95	2.9583	0.0352	53 58 32.2	20.016	0.035	77.9	300 470 471 793	54 1516

[1] 25.64 25.57 25.18 25.23 [2] [21′ 57.7] 22′ 4.2 22′ 7.3 [3] Z. 63 64 298 299 406 407
[4] Z. 238 240 300 301 408 409 [5] Z. 69 406 407 793 794 [6] Z. 63 64 406 407 408 409
[7] Z. 69 298 299 300 301 [8] Z. 18.01 17.79 17.53

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4051	9.4	12h 14m 16s.32	+2s.9730	−0s.0305	+ 50° 2′ 5″.7	−20″.015	+0″.036	85.4	862	50° 1911
4052	8.3	14 54.00	2.9526	0.0350	54 0 42.8	20.012	0.036	73.4	63 64 408 409	54 1517
4053	9.5	15 21.98	2.9619	0.0313	50 55 29.7	20.009	0.038	76.2	65 298 299 793	51 1747
4054	9.3	15 28.17	2.9457	0.0356	54 31 44.0	20.009	0.038	74.1	6 obs. [1]	54 1518
4055	9.0	16 4.35	2.9599	0.0302	50 10 20.7	20.005	0.039	73.4	238 240	50 1913
4056	9.2	12 16 10.10	+2.9563	−0.0310	+ 50 53 56.9	−20.004	+0.039	74.4	300 301	50 1914
4057	9.0	16 37.76	2.9386	0.0346	54 2 38.2	20.001	0.040	73.7	6 obs. [2]	54 1521
4058	8.8	16 44.42	2.9529	0.0307	50 44 22.5	20.000	0.040	82.6	406 793 862 863	50 1915
4059	8.7	17 11.18	2.9350	0.0342	53 52 54.2	19.998	0.041	77.1	471 543 544	53 1541
4060	8.9	17 16.94	2.9510	0.0301	50 16 14.9	19.997	0.041	74.4	300 301	50 1918
4061	9.2	12 17 20.56	+2.9388	−0.0330	+ 52 50 55.1	−19.997	+0.041	77.1	238 240 793	52 1625
4062	9.3	17 39.23	2.9361	0.0330	52 55 47.9	19.995	0.042	75.4	406 407 408 409	53 1542
4063	8.1	17 48.11	2.9249	0.0353	54 51 3.7	19.994	0.042	71.4	66 69 70	54 1522
4064	5.0	17 56.70	2.9372	0.0321	52 15 18.6	19.993	0.042	73.4	238 240	52 1626
4065	9.2	18 11.53	2.9232	0.0348	54 34 1.4	19.991	0.042	74.4	298 299	54 1523
4066	9.3	12 18 14.19	+2.9418	−0.0304	+ 50 50 0.1	−19.991	+0.043	74.4	300 301	50 1920
4067	9.1	18 18.77	2.9233	0.0345	54 23 2.0	19.990	0.043	75.4	406 407	54 1524
4068	9.5	18 53.03	2.9233	0.0334	53 32 49.7	19.986	0.044	74.1	64 408 409	53 1544
4069	9.4	18 55.21	2.9416	0.0292	49 50 3.7	19.986	0.044	81.6	649 651 793 862	49 2137
4070	9.1	19 32.34	2.9180	0.0332	53 34 8.3	19.981	0.045	73.0	5 obs. [3]	53 1545
4071	8.7	12 19 32.90	+2.9337	−0.0299	+ 50 34 50.2	−19.981	+0.045	73.1	174 238 240	50 1921
4072	9.4	19 45.86	2.9344	0.0293	50 7 33.0	19.980	0.045	74.4	300 301	50 1922
4073	8.0	20 5.88	2.9148	0.0328	53 22 8.6	19.977	0.046	71.4	63 64	53 1547
4074	9.2	20 13.22	2.9214	0.0312	52 0 43.9	19.976	0.046	75.4	408 409	52 1628
4075	9.3	20 19.57	2.9302	0.0293	50 10 46.9	19.976	0.046	73.4	238 240	50 1923
4076	9.4	12 20 26.55	+2.9231	−0.0305	+ 51 23 28.4	−19.975	+0.047	74.4	298 299	51 1753
4077	7.5	20 48.55	2.9176	0.0310	51 53 52.7	19.972	0.047	75.4	406 407	51 1754
4078	9.0	20 51.03	2.9226	0.0300	50 56 18.7	19.971	0.047	74.4	300 301	51 1755
4079	9.0	21 9.71	2.9224	0.0295	50 33 15.8	19.969	0.048	73.4	238 240	50 1924
4080	9.3	21 17.07	2.8967	0.0341	54 45 39.3	19.968	0.048	71.4	66 69 70	54 1526
4081	9.8	12 21 43.84	+2.8946	−0.0336	+ 54 31 17.4	−19.964	+0.049	74.1	64 406 407	54 1527
4082	8.8	22 26.92	2.8870	0.0338	54 46 48.5	19.958	0.050	71.4	66 69 70	54 1528
4083	7.4	22 38.12	2.9133	0.0289	50 19 36.1	19.957	0.050	73.6	5 obs. [4]	50 1925
4084	9.5	22 51.75	2.8893	0.0327	53 57 34.1	19.955	0.050	75.4	406 407	— —
4085	9.4	22 58.32	2.9070	0.0295	51 0 17.4	19.954	0.051	74.4	298 299	51 1761
4086	8.5	12 23 8.20	+2.8871	−0.0326	+ 53 57 8.2	−19.952	+0.051	73.4	63 64 406 407	54 1530
4087	8.6	23 17.91	2.9121	0.0281	49 43 14.5	19.951	0.052	78.3	651 653	49 2144
4088	8.4	23 52.82	2.8925	0.0306	52 16 47.2	19.945	0.052	73.4	238 240	52 1630
4089	6.9	24 7.85	2.8909	0.0305	52 13 33.9	19.943	0.053	74.4	300 301	52 1631
4090	9.3	24 12.58	2.8870	0.0310	52 43 21.9	19.942	0.053	75.4	406 407	52 1632
4091	8.8	12 24 35.24	+2.8894	−0.0300	+ 51 55 59.4	−19.939	+0.054	78.9	238 240 793 794	52 1633
4092	7.5	24 46.18	2.8898	0.0297	51 40 20.1	19.937	0.054	71.4	6 obs. [5]	51 1762
4093	6.6	24 53.06	2.8746	0.0319	53 45 38.6	19.936	0.054	71.4	63 64	53 1554
4094	9.7	25 39.12	2.8926	0.0281	50 15 58.7	19.929	0.056	74.6	5 obs. [6]	50 1928
4095	8.5	27 12.93	2.8710	0.0292	51 47 54.0	19.913	0.058	71.4	5 obs. [7]	51 1764
4096	7.9	12 27 22.12	+2.8825	−0.0274	+ 49 59 36.2	−19.911	+0.059	73.4	63 64 406 407	50 1929
4097	8.7	27 36.11	2.8672	0.0293	51 55 54.3	19.909	0.059	76.0	5 obs. [8]	52 1634
4098	9.0	27 47.62	2.8657	0.0292	51 55 59.8	19.907	0.059	77.1	238 240 794	52 1635
4099	7.5	29 0.77	2.8558	0.0290	52 2 58.0	19.894	0.061	72.9	66 70 300 301	52 1637
4105	8.6	29 20.69	2.8627	0.0278	50 49 55.8	19.890	0.062	73.4	238 240	50 1930

[1] Z. 69 70 406 407 408 409
[2] Z. 63 64 298 299 408 409
[3] Z. 66 69 70 406 407
[4] Z. 174 238 240 300 301
[5] Z. 59 62 65 66 69 70
[6] Z. 238 300 301 406 407
[7] Z. 59 62 65 66 70
[8] Z. 238 240 300 301 794

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4101	8.5	12h 29m 56.15	+2.8501	−0.0286	+ 51° 54′ 38.7	−19.883	+0.063	71.4	66 70	52° 1638
4102	8.5	30 14.14	2.8636	0.0267	49 52 17.4	19.880	0.064	77.4	545 546	49 2151
4103	9.2	30 17.38	2.8619	0.0268	50 3 1.1	19.879	0.064	73.4	238 240	50 1931
4104	8.4	30 24.18	2.8442	0.0288	52 12 16.0	19.878	0.064	74.4	300 301	52 1639
4105	9.4	30 27.91	2.8302	0.0304	53 47 49.4	19.877	0.063	71.4	63 64	53 1558
4106	9.4	12 30 34.64	+2.8538	−0.0275	+ 50 51 0.8	−19.876	+0.064	75.4	408 409	50 1932
4107	8.9	31 20.85	2.8490	0.0272	50 46 0.0	19.867	0.065	73.4	238 240	50 1934
4108	9.8	31 42.93	2.8334	0.0286	52 19 14.8	19.862	0.066	71.4	66 70	52 1640
4109	9.3	31 45.32	2.8445	0.0273	50 58 11.4	19.862	0.066	73.4	59 65 408 409	51 1768
4110	8.9	31 45.79	2.8139	0.0306	54 26 16.2	19.862	0.065	71.4	63 64	54 1537
4111	9.1	12 32 8.71	+2.8502	−0.0263	+ 49 54 15.1	−19.857	+0.067	76.1	410 470 471	50 1936
4112	8.9	32 25.15	2.8310	0.0281	51 59 44.3	19.854	0.067	77.8	5 obs. [1]	52 1641
4113	8.7	32 46.56	2.8303	0.0278	51 46 36.0	19.850	0.067	74.4	302 303	51 1771
4114	9.0	32 48.16	2.8320	0.0276	51 33 38.0	19.849	0.068	76.2	5 obs. [2]	51 1772
4115	9.6	32 57.30	2.8416	0.0264	50 17 20.3	19.847	0.068	73.4	238 240	50 1938
4116	9.3	12 33 55.80	+2.8227	−0.0274	+ 51 41 10.3	−19.835	+0.069	72.4	6 obs. [3]	51 1774
4117	7.3	34 1.10	2.8154	0.0280	52 24 43.6	19.834	0.069	73.4	66 70 408 409	52 1644
4118	9.0	34 7.16	2.8159	0.0279	52 16 28.3	19.832	0.069	74.4	300 301	52 1645
4119	8.7	34 43.33	2.8124	0.0276	52 10 7.0	19.824	0.070	73.7	6 obs. [4]	52 1646
4120	9.3	35 24.81	2.8234	0.0259	50 24 39.8	19.815	0.072	76.4	470 471	[50 1940]
4121	8.7	12 35 31.72	+2.8164	−0.0265	+ 51 6 7.2	−19.814	+0.072	71.4	63 64	51 1777
4122	8.5	35 34.98	2.8176	0.0263	50 55 51.6	19.813	0.072	74.4	300 301	51 1778
4123	7.0	35 38.30	2.8257	0.0255	49 58 31.8	19.812	0.072	75.4	408 409	50 1941
4124	9.3	35 51.55	2.8208	0.0258	50 21 36.0	19.809	0.073	81.4	410 794 795	50 1942
4125	9.6	36 9.75	2.8050	0.0270	51 49 23.4	19.805	0.073	74.4	302 303	51 1779
4126	8.9	12 36 29.76	+2.7707	−0.0296	+ 54 53 24.2	−19.800	+0.072	77.4	545 546	55 1549
4127	9.4	37 6.32	2.7765	0.0286	53 54 58.5	19.792	0.074	73.8	5 obs. [5]	54 1543
4128	8.9	37 12.03	2.8155	0.0251	49 55 18.1	19.791	0.075	73.7	174 300 301	50 1943
4129	8.8	37 50.66	2.7609	0.0291	54 46 47.0	19.781	0.074	71.4	66 70	54 1545
4130	9.2	37 52.04	2.8066	0.0253	50 22 50.4	19.781	0.076	74.4	300 301	50 1944
4131	9.2	12 38 2.29	+2.7888	−0.0267	+ 52 4 34.1	−19.779	+0.076	72.9	63 64 302 303	52 1649
4132	8.9	38 10.00	2.7616	0.0288	54 29 34.7	19.777	0.075	76.1	410 470 471	54 1546
4133	6.8	38 34.18	2.7809	0.0269	52 26 59.9	19.771	0.077	75.4	408 409	52 1650
4134	9.0	39 20.18	2.7686	0.0272	53 3 13.9	19.760	0.078	74.4	300 301 302 303	53 1565
4135	8.6	39 23.32	2.7753	0.0266	52 24 28.5	19.759	0.078	75.4	408 409	52 1651
4136	9.0	12 39 41.19	+2.7577	−0.0277	+ 53 46 49.1	−19.754	+0.078	71.4	63 64	53 1567
4137	9.0	39 49.51	2.7532	0.0279	54 4 26.4	19.752	0.078	71.4	66 70	54 1547
4138	9.2	40 2.05	2.7730	0.0262	52 9 59.2	19.749	0.079	74.4	302 303	52 1652
4139	9.2	40 14.00	2.7889	0.0248	50 30 17.7	19.746	0.080	73.7 74.4	174α 300 301	} 50 1946
4140	9.1	40 14.15	2.7889	0.0248	50 30 23.6	19.746	0.080	73.7	174 300 301	
4141	8.3	12 40 46.99	+2.7406	−0.0280	+ 54 29 4.3	−19.738	+0.079	73.4	66 70 408 409	54 1548
4142	8.1	41 5.25	2.7636	0.0261	52 19 12.4	19.733	0.080	74.4	302 303	52 1654
4143	9.1	41 34.17	2.7763	0.0248	50 49 28.1	19.725	0.081	73.7	174 300 301	50 1947
4144	7.5	41 39.38	2.7451	0.0270	53 32 39.6	19.724	0.081	73.4	63 64 408 409	53 1568
4145	6.8	42 4.99	2.7725	0.0247	50 50 23.3	19.717	0.082	73.7	174 302 303	50 1948
4146	9.3	12 42 29.05	+2.7722	−0.0244	+ 50 36 25.6	−19.711	+0.083	74.4	300 301	50 1949
4147	6.8	42 32.85	2.7431	0.0264	53 8 8.8	19.710	0.082	73.4	63 64 408 409	53 1569
4148	9.2	43 14.87	2.7650	0.0243	50 46 26.0	19.698	0.084	80.4	5 obs. [6]	50 1950
4149	8.2	43 18.52	2.7145	0.0276	54 55 48.2	19.697	0.083	77.4	545 546	55 1555
4150	9.2	43 30.72	2.7712	0.0237	50 2 15.3	19.694	0.085	74.4	300 301	50 1951

[1] Z. 70 300 301 793 794 [2] Z. 408 409 410 545 546 [3] Z. 59 63 64 65 302 303
[4] Z. 66 70 302 303 408 409 [5] Z. 66 70 408 409 410 [6] Z. 302 303 794 795 796

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4151	8.8	12h 43m 53s.42	+2s.7135	−0s.0272	+ 54° 38′ 58″.3	−19″.688	+0″.084	74.0	7 obs. [1]	54° 1550
4152	8.9	44 2.16	2.7429	0.0252	52 13 4.2	19.685	0.085	74.4	302 303	52 1656
4153	9.4	45 5.40	2.7490	0.0241	51 2 50.0	19.667	0.087	74.1	65 408 409	51 1788
4154	9.2	45 9.36	2.7434	0.0244	51 29 3.4	19.666	0.087	74.4	302 303	51 1789
4155	9.2	45 14.48	2.7464	0.0241	51 10 51.1	19.665	0.087	76.4	470 471	51 1790
4156	9.3	12 45 23.44	+2.6960	−0.0271	+ 55 2 11.0	−19.662	+0.086	77.4	545 546	55 1558
4157	7.9	45 35.77	2.7579	0.0232	49 56 59.4	19.659	0.088	73.7	174 300 301	50 1954
4158	8.8	45 57.01	2.7165	0.0255	53 11 8.4	19.652	0.087	71.4	63 64	53 1571
4159	9.0	46 9.54	2.7233	0.0249	52 31 59.2	19.649	0.088	71.4	66 69 70	52 1659
4160	8.1	46 40.71	2.7388	0.0236	50 57 43.4	19.640	0.088	74.4	302 303	51 1792
4161	9.2	12 46 47.19	+2.7488	−0.0239	+ 50 2 0.2	−19.638	+0.090	73.7	174 300 301	50 1955
4162	9.0	47 9.06	2.7241	0.0242	51 52 55.2	19.631	0.090	73.4	59 65 408 409	51 1794
4163	9.0	47 34.12	2.7471	0.0225	49 43 30.0	19.624	0.091	78.0	547 649 651	49 2172
4164	8.5	47 52.91	2.6865	0.0257	54 17 12.4	19.618	0.090	77.4	6 obs. [2]	54 1554
4165	9.0	48 1.95	2.7408	0.0226	49 59 32.4	19.615	0.092	74.4	300 301	50 1957
4166	9.4	12 48 41.32	+2.7314	−0.0227	+ 50 24 29.0	−19.603	+0.092	74.4	302 303	50 1959
4167	9.8	49 1.35	2.6933	0.0246	53 10 13.3	19.597	0.092	71.4	5 obs. [3]	53 1576
4168	8.4	49 30.10	2.7294	0.0223	50 7 1.8	19.588	0.094	74.4	302 303	50 1961
4169	8.3	50 9.87	2.6810	0.0245	53 25 13.7	19.576	0.093	75.9	9 obs. [4]	53 1577
4170	9.4	50 15.28	2.6796	0.0245	53 28 15.5	19.574	0.093	76.9	470 547	53 1578
4171	9.0	12 50 24.85	+2.6743	−0.0246	+ 53 45 9.5	−19.571	+0.093	78.3	652 653	53 1579
4172	6.5	50 48.58	2.6559	0.0252	54 46 33.2	19.563	0.094	71.4	66 67 68 70	54 1556
4173	8.9	50 48.90	2.6558	0.0252	54 46 35.8	19.563	0.094	71.4	66 69 70	
4174	9.2	50 49.06	2.7219	0.0220	49 59 33.7	19.563	0.096	74.4	302 303	50 1962
4175	8.9	50 56.11	2.6983	0.0231	51 45 25.0	19.561	0.095	73.4	59 65 408 409	51 1797
4176	9.0	12 51 46.12	+2.7125	−0.0219	+ 50 13 32.4	−19.545	+0.097	74.4	302 303	50 1964
4177	8.8	52 11.78	2.6708	0.0237	53 3 23.3	19.536	0.096	73.4	71 410	53 1580
4178	9.2	52 17.53	2.7056	0.0219	50 28 49.9	19.534	0.098	74.4	174 408 409	50 1965
4179	8.0	52 38.33	2.6649	0.0236	53 13 43.8	19.528	0.097	76.4	470 471	53 1581
4180	9.3	52 52.23	2.6597	0.0238	53 27 34.8	19.523	0.097	78.0	547 649 651	53 1582
4181	9.1	12 52 54.89	+2.6493	−0.0242	+ 54 7 3.8	−19.522	+0.097	71.4	66 68 69 70	54 1559
4182	9.3	53 0.83	2.7077	0.0214	49 56 41.2	19.520	0.099	74.9	302 303 408 409	50 1969
4183	9.4	53 1.14	2.7001	0.0218	50 31 21.9	19.520	0.099	76.1	410 472 473	50 1968
4184	8.8	53 34.85	2.6511	0.0237	53 39 53.0	19.509	0.098	71.4	71 74	53 1583
4185	9.0	53 53.34	2.7037	0.0211	49 47 57.6	19.502	0.100	77.4	545 546	49 2180
4186	8.4	12 54 2.19	+2.6494	−0.0235	+ 53 33 6.0	−19.499	+0.099	74.7	302 303 410	53 1585
4187	9.0	54 16.04	2.6248	0.0244	54 58 29.8	19.495	0.098	80.1	547 548 863	55 1570
4188	8.5	54 51.62	2.6210	0.0241	54 54 44.1	19.482	0.099	81.8	7 obs. [5]	55 1571
4189	9.2	55 9.72	2.6632	0.0222	52 4 51.4	19.476	0.101	78.3	652 653	52 1668
4190	8.8	55 10.16	2.6884	0.0211	50 17 50.0	19.476	0.102	73.7	174 302 303	50 1971
4191	7.3	12 55 32.01	+2.6433	−0.0228	+ 53 12 36.9	−19.468	+0.101	72.2	5 obs. [6]	53 1586
4192	8.8	57 1.26	2.6342	0.0224	53 4 20.5	19.437	0.103	71.4	71 74	53 1588
4193	9.0	57 6.84	2.6360	0.0222	52 55 9.2	19.435	0.103	74.4	302 303	53 1589
4194	7.9	57 24.00	2.6525	0.0214	51 42 42.0	19.428	0.104	73.9	59 62 472 473	51 1802
4195	8.2	57 28.27	2.6054	0.0231	54 36 11.6	19.427	0.102	71.4	66 69 70	54 1564
4196	8.6	12 57 41.30	+2.6402	−0.0218	+ 52 22 49.2	−19.422	+0.104	76.1	410 470 471	52 1671
4197	9.0	57 52.58	2.6600	0.0209	50 59 1.4	19.418	0.105	74.4	302 303	51 1803
4198	8.0	58 47.66	2.6572	0.0205	50 44 31.1	19.398	0.107	75.2	174 410 470 471	50 1976
4199	8.7	58 52.78	2.6194	0.0219	53 7 27.8	19.396	0.105	75.7	6 obs. [7]	53 1592
4200	7.2	58 58.05	2.5931	0.0227	54 37 31.1	19.394	0.104	71.4	66 69 70	54 1565

[1] Z. 66 69 70 408 409 470 471
[2] Z. 67 68 408 409 862 863
[3] Z. 63 64 66 69 70
[4] Z. 71 408 409 410 471 472 473α 649 651
[5] Z. 546 654 655 794 795 796 862
[6] Z. 67 68 71 74 410
[7] Z. 67 68 71 74 795 796

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4201	8.2	12h 59m 14.s76	+2.s6368	−0.s0210	+ 51° 52′ 28.″2	−19.″388	+0.″106	72.6	5 obs. [1]	51° 1807
4202	8.6	59 16.00	2.6600	0.0202	50 19 55.6	19.387	0.108	76.4	470 471	50 1977
4203	7.3	59 17.99	2.5922	0.0225	54 31 39.0	19.387	0.105	76.4	472 473	54 1566
4204	9.4	13 0 1.20[2]	2.6346	0.0207	51 39 25.6	19.370	0.108	84.4	795 796	51 1808
4205	9.3	0 2.24	2.6345	0.0207	51 39 25.6	19.370	0.108	84.4	795 796	
4206	8.9	13 0 10.23	+2.6567	−0.0199	+ 50 8 13.2	−19.367	+0.109	73.7	174 302 303	50 1979
4207	9.2	0 22.40	2.5808	0.0223	54 41 11.7	19.362	0.106	71.4	66 69 70	54 1569
4208	8.6	0 22.75[3]	2.6077	0.0215	53 8 50.1	19.362	0.107	75.7 75.6	71 74 410δ797	53 1596
4209	8.9	0 26.24	2.5906	0.0220	54 6 43.8	19.361	0.107	78.1	549 654 655	54 1570
4210	9.2	0 53.26	2.5854	0.0219	54 12 28.0	19.351	0.107	77.4	547 548	54 1571
4211	8.8	13 1 1.30	+2.6071	−0.0212	+ 52 54 6.0	−19.348	+0.108	76.0 75.5	6 obs. [4]	53 1598
4212	9.3	1 20.54	2.5764	0.0219	54 30 22.2	19.340	0.108	74.9	69 654	54 1572
4213	9.3	1 28.42	2.6201	0.0205	51 54 49.2	19.337	0.110	80.4	472 473 795 796	52 1674
4214	8.6	1 29.54	2.5915	0.0214	53 36 10.7	19.337	0.108	71.4	71 74	53 1599
4215	9.0	1 30.51	2.6073	0.0209	52 40 21.1	19.336	0.109	81.7	410 797 862	52 1673
4216	8.9	13 1 39.51	+2.6244	−0.0203	+ 51 34 15.4	−19.333	+0.110	79.2 77.9	5 obs. [5]	51 1811
4217	8.9	2 10.72	2.6428	0.0194	50 9 46.1	19.321	0.111	73.7	174 302 303	50 1980
4218	7.4	2 23.67	2.6044	0.0206	52 27 31.4	19.316	0.110	75.9	410 471	52 1676
4219	9.6	2 33.10	2.6461	0.0194	49 46 40.6	19.312	0.112	77.8	546 547 649 651	49 2192
4220	8.2	2 47.60	2.5702	0.0214	54 13 37.6	19.306	0.110	71.4	66 69 70	54 1573
*4221	9.2	13 2 48.68	+2.6161	−0.0200	+ 51 34 33.9	−19.306	+0.112	77.9	71 74 794 796	51 1815
4222	8.0	3 33.46	2.6342	0.0191	50 7 10.3	19.288	0.113	73.7	174 302 303	50 1982
4223	7.8	3 59.70	2.6036	0.0208	51 49 20.2	19.277	0.113	73.9	59 65 470 471	51 1818
4224	8.4	4 9.82	2.5850	0.0203	52 49 57.4	19.273	0.112	80.4	472 473 795 796	52 1678
4225	8.9	4 15.50	2.5902	0.0201	52 29 37.8	19.271	0.113	77.4	547 548	52 1679
4226	9.1	13 4 30.47	+2.6080	−0.0195	+ 51 20 23.1	−19.265	+0.114	78.3	649 651	51 1819
4227	9.0	4 34.07	2.6238	0.0189	50 20 55.9	19.264	0.114	74.4	302 303	50 1984
4228	8.8	4 52.17	2.5527	0.0208	54 17 37.5[6]	19.256	0.112	71.4	66 67 68α 69	54 1575
4229	9.2	5 3.48	2.5879	0.0198	52 17 39.3	19.252	0.114	76.1	410 470 471	52 1681
4230	8.1	5 4.52	2.5734	0.0202	53 6 3.7	19.251	0.113	71.4	71 74	53 1604
4231	9.2	13 5 5.58	+2.5641	−0.0204	+ 53 36 4.7	−19.251	+0.113	77.4	547 548	53 1605
4232	9.5	5 8.46	2.6229	0.0187	50 9 38.8	19.250	0.116	73.4	174 302	50 1985
4233	6.9	7 30.07	2.5653	0.0193	52 33 47.0	19.191	0.117	72.7	71 74 410	52 1685
4234	8.9	8 1.75	2.5755	0.0188	51 47 12.6	19.177	0.118	71.4	6 obs. [7]	51 1821
4235	9.1	8 7.65	2.5426	0.0195	53 31 26.9	19.175	0.117	76.7	410 547 548	53 1606
4236	9.2	13 8 34.46	+2.6047	−0.0178	+ 49 52 20.6	−19.163	+0.120	77.4	545 546	49 2200
4237	9.6	8 55.14	2.5725	0.0185	51 36 17.5	19.154	0.119	74.4	302 303	51 1823
4238	9.1	9 11.61	2.5585	0.0187	52 16 2.6	19.147	0.119	76.1	410 472 473	52 1686
4239	8.7	9 16.28	2.5314	0.0193	53 39 14.8	19.145	0.118	71.4	71 74	53 1607
4240	8.6	9 16.28	2.5148	0.0196	54 28 39.6	19.145	0.117	71.4	66 69 70	54 1581
4241	8.8	13 9 22.29	+2.5042	−0.0198	+ 54 56 53.6	−19.142	+0.117	78.3	652 653	55 1585
4242	8.9	9 28.29	2.5990	0.0176	49 51 25.8	19.140	0.121	77.4	545 546	49 2203
4243	8.8	9 45.02	2.5044	0.0196	54 47 43.3	19.133	0.117	78.0	549 649 651	54 1582
4244	8.5	10 2.13	2.5396	0.0188	52 56 34.2	19.125	0.120	76.7	410 547 548	53 1608
4245	8.4	10 11.57	2.5656	0.0181	51 29 37.7	19.121	0.121	73.7	174 302 303	51 1824
4246	8.8	13 10 15.11	+2.5129	−0.0192	+ 54 11 52.9	−19.119	+0.119	71.4	66 69 70	54 1583
4247	7.4	10 30.46	2.4927	0.0195	55 3 48.8	19.113	0.118	77.4	545 546	55 1587
4248	8.6	10 55.96	2.5138	0.0189	53 53 55.9	19.101	0.120	78.0	549 649 651	54 1584
4249	8.6	11 19.10	2.5626	0.0177	51 13 49.8	19.091	0.122	74.4	302 303	51 1826
4250	8.6	11 34.58	2.5766	0.0173	50 20 50.5	19.084	0.124	75.1	174 472 473	50 1990

[1] Z. 59 62 65 302 303
[2] 1.s46 0.s95
[3] 22.s73 22.s75 [22.s37] 22.s78
[4] Z. 67 68 649 651 652 653α
[5] Z. 59 65 795 796 797α
[6] 39.″1 35.″8 [42.″0] 37.″6
[7] Z. 59 62 65 66 69 70

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4251	8.9	13h 11m 53s.70	+2s.5227	−0s.0184	+ 53° 6′ 14″.6	−19″.076	+0″.122	71.4	71 74	53° 1610
4252	8.4	12 15.67	2.5708	0.0172	50 25 7.1	19.066	0.124	83.1 82.7	653 795α 796 863	50 1992
4253	9.2	12 17.81	2.5401	0.0178	52 3 56.5	19.065	0.123	81.2	547 548 795 862	52 1609
4254	9.2	12 23.18	2.5404	0.0178	52 0 57.2	19.062	0.123	81.4	656 796	52 1609
4255	9.0	12 27.98	2.5782	0.0169	49 55 1.8	19.060	0.125	78.4	654 655	50 1993
4256	7.7	13 12 48.08	+2.5546	−0.0173	+ 51 6 19.2	−19.051	+0.124	74.4	302 303	51 1829
4257	8.8	12 54.30	2.5340	0.0177	52 9 18.2	19.048	0.124	77.8	549 653	52 1691
4258	5.9	12 55.34	2.5677	0.0170	50 20 24.3	19.048	0.125	75.1	174 472 473	50 1994
4259	9.2	13 15.82	2.4724	0.0186	54 59 29.4	19.038	0.121	77.4	545 546	55 1590
4260	9.1	13 19.78	2.4841	0.0184	54 26 9.2	19.036	0.122	75.5	7 obs. [1]	54 1586
4261	7.9	13 14 32.03	+2.5430	−0.0169	+ 51 5 27.8	−19.003	+0.126	72.8	59 65 174 302 303	51 1830
4262	8.9	14 52.77	2.4895	0.0178	53 38 2.6	18.993	0.125	71.4	71 74	53 1615
4263	8.7	15 7.70	2.5390	0.0167	51 5 25.3	18.986	0.127	73.2	62 174 302 303	51 1832
4264	8.6	15 42.76	2.4639	0.0178	54 30 53.6	18.970	0.125	71.4	66 69 70	54 1588
4265	7.4	15 45.16	2.4887	0.0174	53 22 3.4	18.969	0.126	71.4	71 74	53 1618
4266	9.3	13 16 10.97	+2.4715	−0.0175	+ 54 0 45.9	−18.956	+0.126	75.0	67 68 410 649 651	54 1589
4267	9.2	17 23.91	2.4622	0.0172	54 1 1.0	18.921	0.127	71.4	66 69 70	54 1591
4268	9.4	17 42.25	2.5437	0.0157	49 55 33.3	18.913	0.131	79.7	6 obs. [2]	50 1997
4269	7.6	17 46.73	2.4963	0.0164	52 18 25.5	18.910	0.129	77.4	545 546	52 1698
4270	8.6	17 48.04	2.4508	0.0172	54 22 54.9	18.910	0.127	77.9	6 obs. [3]	54 1592
4271	8.6	13 18 4.72	+2.5193	−0.0161	+ 51 3 50.4	−18.902	+0.131	71.4	76 78	51 1837
4272	8.7	18 14.17	2.5051	0.0162	51 43 7.6	18.897	0.130	78.0	174 302 303 795 796	51 1838
4273	9.4	19 11.79	2.4317	0.0169	54 44 29.4	18.869	0.128	71.4	66 69	54 1593
4274	8.9	19 22.12	2.5190	0.0156	50 38 28.0	18.864	0 133	77.4	410 549 649 651	50 1999
4275	8.5	19 29.29	2.4948	0.0160	51 47 44.3[4]	18.860	0.132	78.2 76.1	76 78 796α 862	51 1839
4276	8.8	13 19 45.65	+2.4933	−0.0159	+ 51 46 41.1	−18.852	+0.132	80.4 79.4	6 obs. [5]	51 1840
4277	9.1	19 53.44	2.4270	0.0167	54 42 40.6	18.848	0.129	71.4	66 69 70	54 1594
4278	8.7	19 58.14	2.4442	0.0165	53 57 7.4	18.846	0.130	72.4	67 71 74 410	54 1595
4279	8.9	20 57.94	2.4952	0.0155	51 17 3.2	18.816	0.134	71.4	76 78	51 1841
4280	9.4	21 1.24	2.4895	0.0155	51 32 25.9	18.814	0.134	75.8	174 303 649 651	51 1842
4281	9.3	13 21 38.69	+2.4889	−0.0153	+ 51 21 45.9	−18.795	+0.135	71.4	66 69 70	51 1843
4282	9.0	22 50.90	2.4862	0.0150	51 6 7.0	18.758	0.136	71.4	76 78	51 1845
4283	6.4	22 58.08	2.4348	0.0155	53 23 39.2	18.754	0.134	71.4	71 74	53 1622
4284	9.4	23 1.61	2.4188	0.0156	54 3 15.4	18.753	0.133	75.7 76.6	6 obs. [6]	54 1601
4285	8.8	23 3.39	2.5073	0.0146	50 0 15.4	18.752	0.138	75.0	175 176 410 547 548	50 2002
4286	7.1	13 23 4.11	+2.4819	−0.0150	+ 51 14 1.1	−18.751	+0.136	76.6	174 549 649 652	51 1846
4287	9.1	23 16.10	2.4626	0.0151	52 4 7.8	18.745	0.136	77.4	545 546	52 1705
4288	8.4	23 22.11	2.4518	0.0152	52 31 28.4	18.742	0.135	76.4	472 473	52 1706
4289	9.3	23 22.29	2.5053	0.0145	49 59 58.9	18.742	0.138	81.4	410 797 799	50 2004
4290	7.1	23 37.05	2.4753	0.0148	51 22 7.4	18.734	0.137	71.8 71.4	76 78 177α	51 1847
4291	9.2	13 24 2.83	+2.4994	−0.0144	+ 50 4 39.8	−18.721	+0.138	75.7	176 545 546	50 2005
4292	7.4	24 17.54	2.4149	0.0153	53 49 25.7	18.713	0.135	77.9	6 obs. [7]	53 1624
4293	9.7	24 27.19	2.3984	0.0153	54 26 41.6	18.708	0.134	71.4	66 69 70	54 1602
4294	8.3	24 28.92	2.4809	0.0145	50 49 55.4	18.707	0.138	76.1	410 472 473	50 2006
4295	9.0	25 13.73	2.4458	0.0147	52 12 29.6	18.683	0.138	79.6	6 obs. [8]	52 1710
4296	9.1	13 25 51.30	+2.4885	−0.0140	+ 50 2 3.4	−18.663	+0.141	72.4	175 176	50 2007
4297	9.1	25 51.91	2.4621	0.0143	51 16 26.7	18.663	0.139	71.4	76 78	51 1848
4298	8.7	26 13.25	2.3973	0.0148	53 57 19.6	18.652	0.136	78.8	7 obs. [9]	54 1604
4299	8.6	26 17.88	2.4002	0.0147	53 48 44.1	18.649	0.137	76.6	71 74 75 795 796	53 1628
4300	9.3	26 26.78	2.4048	0.0146	53 34 46.4	18.644	0.137	74.7	302 303 410	53 1629

[1] Z. 66 67 68 69 794 795 796 [2] Z. 410 549 649 651 795 796 [3] Z. 67 71 74 797 798 799
[4] 42″.9 44″.3 [40″.2] 45″.8 [5] Z. 76 78 795 796 862α 863 [6] Z. 66 67 68α 69 795 796
[7] Z. 71 74 77 794 795 796 [8] Z. 177 302 303 862 863 864 [9] Z. 66 69 70 794 797 798 799

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4301	9.4	13h 26m 50s.37	+2s.3820	−0s.0147	+ 54° 22′ 39″.7	−18″.632	+0s.136	71.4	67 68	— —
4302	9.0	27 2.08	2.3812	0.0146	54 21 7.4	18.626	0.137	76.4	472 473	54° 1605
4303	9.1	27 28.44	2.4822	0.0136	49 50 8.1	18.611	0.143	84.4	794 800	49 2222
4304	8.4	27 34.29	2.4182	0.0142	52 41 5.6	18.608	0.139	80.2	177 303 795 796 862	52 1711
4305	7.5	27 34.86	2.3705	0.0145	54 36 30.7	18.608	0.137	71.4	66 69 70 71 74	54 1606
4306	9.2	13 27 41.02	+2.3960	−0.0143	+ 53 34 18.5	−18.604	+0.138	71.4	75 77	53 1631
4307	8.8	27 42.85	2.4818	0.0135	49 47 2.0	18.603	0.143	77.4	545 546 547 548	} 49 2223
4308	8.6	27 42.99	2.4818	0.0135	49 46 59.9	18.603	0.143	77.4	545 546 547 548	
4309	9.0	28 0.14	2.4724	0.0135	50 8 26.1	18.594	0.143	78.9	175 176 863 864	50 2008
4310	8.9	28 22.73	2.4339	0.0138	51 46 8.1	18.582	0.141	73.4	76 304 306	51 1851
4311	8.4	13 28 41.66	+2.3771	−0.0141	+ 54 1 31.1	−18.571	+0.139	77.0	66 69 70 862 864	54 1608
4312	8.1	28 46.74	2.4352	0.0137	51 35 34.2	18.568	0.142	78.0	177 302 303 795 796	51 1852
4313	9.2	29 7.85	2.4498	0.0134	50 50 13.8	18.557	0.144	74.6	73 176 545 546	50 2009
4314	8.0	29 9.38	2.3647	0.0140	54 22 20.8	18.556	0.139	73.9	67 68 472 473	54 1609
4315	8.8	29 17.30	2.4080	0.0138	52 36 14.0	18.552	0.141	72.9	6 obs. [1]	52 1715
4316	9.0	13 29 40.87	+2.3485	−0.0139	+ 54 49 56.1	−18.538	+0.138	71.4	66 69	54 1610
4317	9.0[2]	30 33.26[3]	2.4525	0.0130	50 17 46.0[3]	18.509	0.146	72.4	176	50 2012
4318	8.8	30 43.92	2.3363	0.0137	54 59 15.6	18.503	0.139	77.4	547 548	55 1619
4319	8.5	30 46.88	2.3784	0.0135	53 22 20.4	18.501	0.142	72.4	6 obs. [4]	53 1634
4320	8.9	31 3.34	2.4532	0.0129	50 7 1.3	18.492	0.146	74.4	304 305 306	50 2013
4321	7.8	13 31 34.74	+2.4496	−0.0128	+ 50 7 32.9[5]	−18.474	+0.147	81.9 84.4	306α 797α 798 799	50 2014
4322	7.8	31 36.63	2.4079	0.0131	51 55 56.7	18.473	0.144	78.2	76 177 795 796	52 1718
4323	7.4	31 37.92	2.3734	0.0133	53 19 36.6	18.473	0.143	77.9	71 74 798 799	53 1635
4324	8.7	31 59.30	2.3724	0.0132	53 15 51.6	18.460	0.143	76.4	472 473	53 1636
4325	6.9	32 18.17	2.3710	0.0131	53 13 50.9	18.450	0.144	71.4	71 74	53 1637
4326	6.8	13 32 42.41	+2.4142	−0.0127	+ 51 21 5.7	−18.436	+0.146	75.7 77.9	6 obs. [6]	51 1856
4327	9.0	32 51.60	2.4051	0.0128	51 41 39.6	18.430	0.146	74.4	302 303	51 1857
4328	9.7	33 2.86	2.4279	0.0126	50 40 1.5	18.424	0.148	73.7	175 304 305	50 2015
4329	7.9	33 4.10	2.4060	0.0127	51 35 45.7	18.423	0.146	76.6	177 473 549 649 652	51 1858
4330	8.4	33 5.27	2.3204	0.0130	54 54 35.7	18.423	0.142	77.4	547 548	55 1623
4331	9.6	13 33 43.16	+2.3861	−0.0126	+ 52 14 4.6	−18.401	+0.146	80.1	76 795 796	52 1724
4332	6.5	34 19.06	2.3768	0.0125	52 26 19.7	18.380	0.147	75.0	302 303 411 412	52 1725
4333	6.4	34 40.21	2.3455	0.0125	53 33 13.4	18.368	0.145	71.4	71 74 75 77	53 1640
4334	7.8	35 21.18	2.3355	0.0124	53 44 39.8	18.343	0.146	76.9	6 obs. [7]	53 1642
4335	6.8	35 25.74	2.4009	0.0121	51 9 4.2	18.341	0.150	77.2	6 obs. [8]	51 1859
4336	7.2	13 35 34.50	+2.3317	−0.0123	+ 53 49 31.9	−18.336	+0.146	78.0	552 649 652	53 1644
4337	7.0	35 34.52	2.3317	0.0123	53 49 30.8	18.336	0.146	75.5	411 412	53 1643
4338	9.3	35 42.79	2.3425	0.0122	53 23 3.9	18.331	0.146	84.4	800	53 1645
4339	8.4	35 44.93	2.3918	0.0121	51 26 21.2	18.329	0.149	80.1	76 795 796	51 1860
4340	7.2	35 51.51	2.3409	0.0122	53 24 19.1	18.325	0.146	72.9	71 74 302 303	53 1646
4341	9.4	13 35 58.48	+2.3142	−0.0122	+ 54 21 12.2	−18.321	+0.145	73.9	67 68 472 473	54 1613
4342	9.0	36 11.72	2.3026	0.0122	54 42 19.6	18.314	0.144	71.4	75 77	54 1614
4343	9.0	36 16.40	2.3214	0.0122	54 0 50.6	18.311	0.146	73.2 73.7	66 70α 177 411 412	54 1615
4344	9.1	36 24.30	2.3622	0.0120	52 26 45.5	18.306	0.148	74.4	304 305 306	52 1728
4345	9.0	36 48.00	2.3188	0.0120	53 58 9.8	18.292	0.146	76.4	472 473	54 1616
4346	8.9	13 36 59.55	+2.3812	−0.0118	+ 51 31 58.2	−18.285	+0.150	77.9	76 78 795 796	51 1862
4347	9.0	37 6.57	2.3412	0.0119	53 3 27.8	18.281	0.148	80.1	71 798 799	53 1649
4348	9.0	37 15.99	2.4113	0.0116	50 12 34.4	18.275	0.152	80.1	73 798 799	50 2020
4349	7.6	37 59.87	2.3959	0.0115	50 39 27.9	18.249	0.153	73.2	6 obs. [9]	50 2021
4350	8.1	38 13.72	2.4055	0.0114	50 11 32.0	18.240	0.154	84.4	795 796	50 2022

[1] Z. 71 74 76 304 305 306 [2] Dupl. maj.; Com. 9m.2 [3] Z. 175 9m.0 & 9m.2 α med. 33s.37 δ 47″.9 & 46″.1 (72.4)
[4] Z. 71 74 75 77 302 303 [5] [39″.3] 33″.7 32″.1 [6] Z. 66 69 70α 76α 795 796
[7] Z. 80 177 302 303 798 799 [8] Z. 66 304 305 306 798 799 [9] Z. 80 175 176 304 305 306

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4351	9.4	13h 38m 22.18	+2.3800	−0.0114	+ 51° 12′ 30.3	−18.235	+0.152	71.7	76 78 177	51° 1863
4352	9.2	38 23.16	2.2876	0 0116	54 39 18.8	18.234	0.147	71.4	66 70	54 1617
4353	8.9	38 34.90	2.2939	0.0116	54 23 9.9	18.227	0.147	72.8	6 obs. [1]	54 1618
4354	8.9	38 55.00	2.4113	0.0112	49 45 49.7	18.215	0.154	77.4	547 548	49 2239
4355	9.0	38 55.02	2.3539	0.0114	52 5 52.4	18.215	0.151	74.4	304 305 306	52 1731
4356	6.3	13 39 3.76	+2.3372	−0.0114	+ 52 41 35.6	−18.210	+0.150	76.4	472 473	52 1733
4357	9.1	39 12.73	2.3590	0.0113	51 49 11.3	18.204	0.152	71.7	76 78 176	51 1865
4358	8.6	39 22.38	2.2855	0.0114	54 28 25.1	18.198	0.148	80.1	66 795 796	54 1619
4359	8.4	39 30.22	2.2901	0.0113	54 16 58.6	18.194	0.148	75.5	411 412	54 1620
4360	9.2	39 43.21	2.3401	0.0112	52 24 56.3	18.186	0.152	73.9	177 304 305 306	52 1736
4361	9.5	13 41 8.87	+2.3925	−0.0107	+ 49 57 54.6	−18.133	+0.157	80.1	73 795 796	50 2025
4362	9.3	41 21.75	2.2548	0.0109	55 0 28.9	18.125	0.148	71.4	71 76 78	55 1633
4363	8.6	41 37.30	2.3219	0.0108	52 36 17.6	18.115	0.153	73.9	177 304 305 306	52 1739
4364	9.2	41 38.72	2.3602	0.0107	51 8 33.3	18.114	0.155	71.4	66 70	51 1867
4365	7.0	41 55.70	2.2490	0.0106	55 3 27.7	18.103	0.149	71.4	75 76 77 78	55 1634
4366	9.1	13 42 17.20	+2.3496	−0.0106	+ 51 23 24.3	−18.090	+0.156	73.6	80 304 305 306	51 1868
4367	**2.0**	**42 36.83**	**2.3840**	**0.0104**	**49 56 16.0**	**18.078**	**0.158**		**Fund. Cat.**	**50 2027**
4368	7.9	43 1.84	2.3583	0.0104	50 51 44.2	18.062	0.157	75.5	411 412	50 2028
4369	9.0	43 24.78	2.2999	0.0104	52 57 4.1	18.047	0.154	71.4	71 74	53 1657
4370	9.4	43 25.61	2.2491	0.0103	54 41 18.7	18.047	0.150	81.4	656 657 795 796	54 1623
4371	9.3	13 43 26.02	+2.2544	−0.0103	+ 54 30 35.7	−18.046	+0.151	74.9	67 654	54 1622
4372	10.0	43 29.83	2.2399	0.0102	54 58 17.7	18.044	0.150	77.9	78 800	55 1635
4373	8.4	43 56.06	2.2694	0.0102	53 53 7.4	18.027	0.152	75.5	411 412	53 1658
4374	8.6	44 19.90[2]	2.3711	0.0101	50 1 29.6	18.012	0.160	80.1	73 795 796	50 2029
4375	9.1	44 20.81	2.2842	0.0101	53 16 31.4	18.011	0.154	74.8	71 74 649 652	53 1660
4376	9.0	13 44 21.38	+2.3168	−0.0101	+ 52 6 18.4	−18.011	+0.156	76.9	304 305 306 795	52 1744
4377	8.7	44 58.28	2.2288	0.0098	54 58 24.0	17.987	0.151	76.1	76 78 865	55 1636
4378	9.0	45 21.76	2.3404	0.0099	50 58 26.4	17.972	0.159	71.4	66 69 70 80	51 1870
4379	8.8	46 11.64	2.2443	0.0096	54 10 50.9	17.940	0.154	71.7	67 68 177	54 1625
4380	9.0	46 17.52	2.3238	0.0097	51 22 22.1	17.936	0.159	71.4	76 78	51 1872
4381	7.5	13 46 20.34	+2.2515	−0.0096	+ 53 54 27.9	−17.934	+0.154	71.4	71 74 75 77	53 1663
4382	9.5	46 39.59	2.2439	0.0095	54 5 0.8	17.921	0.154	71.4	66 69 70	54 1626
4383	8.8	47 2.97	2.3400	0.0095	50 34 25.3	17.906	0.161	78.4	5 obs. [3]	50 2030
4384	7.8	47 9.20	2.2591	0.0096	53 27 37.8	17.902	0.156	71.4	71 74	53 1664
4385	8.4	47 9.57	2.3074	0.0095	51 45 58.2	17.902	0.159	72.8	80 241 242	51 1874
4386	9.0	13 47 10.41	+2.2944	−0.0095	+ 52 13 49.0	−17.901	+0.158	75.5	411 412	52 1747
4387	8.8	47 33.03	2.3273	0.0094	50 56 5.0	17.886	0.161	71.4	76 78	51 1876
4388	9.8	47 34.50	2.2764	0.0094	52 46 6.4[4]	17.885	0.158	80.4 78.4	177 797 798α	52 1749
4389	9.0	47 38.91	2.3346	0.0094	50 38 8.8	17.882	0.162	80.1	73 795 796	50 2031
4390	8.0	48 16.24	2.2235	0.0091	54 22 0.6	17.858	0.155	73.0	5 obs. [5]	54 1628
4391	7.4	13 48 38.14	+2.2642	−0.0091	+ 52 56 20.2	−17.843	+0.158	71.4	71 74 75 77	53 1667
4392	7.6	48 49.29	2.2690	0.0091	52 43 43.9	17.836	0.159	73.9	177 304 305 306	52 1751
4393	8.9	48 55.16	2.2952	0.0091	51 47 9.8	17.832	0.161	71.4	76 78	51 1877
4394	6.0	49 15.00	2.2172	0.0088	54 20 38.1	17.818	0.156	71.4	5 obs. [6]	54 1630
4395	9.3	49 53.68	2.2850	0.0089	51 55 21.4	17.793	0.161	73.2	5 obs. [7]	52 1753
4396	9.2	13 50 20.91	+2.4441	−0.0087	+ 53 12 58.4	−17.774	+0.159	73.0	5 obs. [8]	53 1669
4397	8.8	50 34.44	2.3156	0.0088	50 39 17.2	17.765	0.164	71.9	72 73 175 176	50 2034
4398	8.7	50 48.48	2.2815	0.0087	51 49 55.5	17.755	0.162	73.2	5 obs. [9]	51 1881
4399	10.2	51 14.84	2.2388	0.0085	53 11 16.4	17.738	0.160	71.4	74 77	53 1672
4400	9.5	51 22.44	2.2262	0.0084	53 34 13.7	17.732	0.159	78.4	5 obs. [10]	53 1673

[1] Z. 67 68 75 77 411 412
[2] 19.92 20.12 19.65
[3] Z. 304 305 306 795 796
[4] 6.76 6.72 [11.74]
[5] Z. 66 69 70 411 412
[6] Z. 66 67 68 69 70
[7] Z. 71 74 304 305 306
[8] Z. 66 69 70 411 412
[9] Z. 76 78 304 305 306
[10] Z. 649 652 654 656 657

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4401	9.0	$13^h\,51^m\,30^s.98$	+2ˢ.3316	−0ˢ.0086	+ 49°49′ 52″.0	−17″.727	+0″.166	77.4	547 548	49°2252
4402	9.0	51 31.99	2.2411	0.0085	53 2 45.9	17.726	0.160	79.8	411 412 795 796	53 1674
4403	9.0	51 33.55	2.2985	0.0086	51 3 6.5	17.725	0.164	72.0	80 177	51 1882
4404	8.2	52 19.99	2.1898	0.0080	54 30 15.5	17.693	0.158	71.4	66 69 70	54 1632
4405	8.6	52 23.66	2.2905	0.0084	51 8 54.4	17.691	0.165	77.9	76 78 795 796	51 1883
4406	8.6	13 52 50.66	+2.3108	−0.0083	+ 50 18 18.6	−17.672	+0.167	71.9	72 73 175 176	50 2035
4407	8.2	52 57.34	2.2448	0.0082	52 36 13.6	17.667	0.162	79.2	6 obs. [1]	52 1757
4408	7.0	53 10.34	2.1832	0.0078	54 31 11.4	17.658	0.161	73.4	67 68 411 412	54 1633
4409	8.0	53 19.63	2.1826	0.0078	54 30 16.0	17.652	0.158	75.5	411 412	— —
4410	9.1	53 44.80	2.2581	0.0081	51 58 29.0	17.635	0.164	73.6	5 obs. [2]	52 1759
4411	8.9	13 53 47.16	+2.1923	−0.0078	+ 54 6 17.0	−17.633	+0.160	78.3	649 652	54 1635
4412	8.2	53 56.16	2.3163	0.0081	49 51 16.4	17.627	0.169	77.4	547 548	49 2256
4413	7.6	54 3.60	2.1877	0.0077	54 11 14.8	17.622	0.160	75.5	411 412	54 1636
4414	7.9	54 20.70	2.2009	0.0077	53 42 50.3	17.610	0.161	71.4	74 75 77	53 1676
4415	8.6	54 37.06	2.2709	0.0080	51 20 21.7	17.598	0.166	71.4	76 78	51 1884
4416	8.8	13 54 44.30	+2.2763	−0.0080	+ 51 7 26.5	−17.593	+0.167	75.4	80 549 551	51 1885
4417	8.5	54 46.86	2.1643	0.0074	54 44 23.4	17.591	0.159	74.5	177 411 412	54 1637
4418	8.2	55 3.91	2.2257	0.0077	52 45 52.1	17.579	0.164	78.1	305 306 864	52 1760
4419	9.2	55 13.60	2.1937	0.0075	53 44 54.3	17.572	0.162	78.4	654 655	[53 1677]
4420	8.9	55 14.21	2.2237	0.0077	52 47 26.0	17.572	0.164	85.1 85.0	6 obs. [3]	52 1761
4421	8.5	13 55 23.45	+2.2140	−0.0076	+ 53 4 18.0	−17.566	+0.163	84.8	5 obs. [4]	53 1678
4422	8.5	55 29.71	2.1986	0.0075	53 32 10.6	17.561	0.162	76.6	74 649 656 657	53 1679
4423	9.0	55 34.68	2.2252	0.0076	52 40 6.6	17.558	0.164	71.4	76 78	52 1762
4424	8.2	56 2.84	2.1673	0.0072	54 22 37.0	17.538	0.161	73.2	5 obs. [5]	54 1640
4425	8.2	56 7.80	2.2969	0.0077	50 4 33.6	17.534	0.170	71.4	72 73	50 2039
4426	8.2	13 56 33.30	+2.2756	−0.0076	+ 50 44 36.6	−17.516	+0.169	72.7	80 175 241 242	50 2041
4427	8.6	56 57.60	2.1406	0.0068	54 58 8.6	17.499	0.160	77.4	549 551	55 1649
4428	9.7	57 25.08	2.2177	0.0072	52 30 52.5	17.479	0.166	73.4	76 78 411 412	52 1765
4429	9.1	57 30.77	2.1668	0.0069	54 4 49.3	17.475	0.163	71.4	71 74 75 77	54 1641
4430	6.1	58 20.60	2.2402	0.0072	51 34 25.2	17.440	0.169	72.4	5 obs. [6]	51 1889
4431	8.6	13 59 41.25	+2.2170	−0.0068	+ 52 3 16.8	−17.381	+0.169	72.8	5 obs. [7]	52 1768
4432	9.1	59 42.58	2.2780	0.0070	49 58 34.2	17.380	0.173	71.4	72 73 80	50 2043
4433	7.7	59 56.46	2.1850	0.0066	53 0 56.9	17.370	0.167	71.4	71 74 75 77	53 1685
4434	9.0	14 0 1.85	2.2179	0.0068	51 57 2.9	17.366	0.169	76.4	411 412 547 548	52 1769
4435	7.6	1 30.12	2.2594	0.0067	50 14 51.3	17.301	0.174	81.7	80 796 866 867	50 2044
4436	9.8	14 1 37.92	+2.2336	−0.0066	+ 51 6 3.0	−17.296	+0.172	72.4	175 176	51 1890
4437	7.5	2 14.22	2.1399	0.0059	53 54 22.8	17.269	0.166	71.4	71 74 75 77	53 1686
4438	8.6	2 22.18	2.1206	0.0057	54 26 4.2	17.263	0.165	74.4	67 68 549 551	54 1647
4439	8.3	2 31.50	2.1746	0.0061	52 48 26.3	17.256	0.169	71.4	78 79 81	52 1775
4440	8.6	2 57.08	2.1539	0.0059	53 20 53.2	17.237	0.168	74.5	177 413 414	53 1689
4441	6.0	14 3 37.03	+2.2525	−0.0063	+ 50 2 57.8	−17.207	+0.176	71.4	72 73	50 2047
4442	8.4	3 54.80	2.1855	0.0060	52 11 9.6	17.194	0.171	71.4	79 81	52 1776
4443	8.7	4 14.76	2.2511	0.0061	49 58 1.3	17.179	0.177	73.1	80 175 176	50 2048
4444	8.6	4 16.09	2.2136	0.0060	51 13 6.9	17.178	0.174	80.1	78 795 796	51 1892
4445	9.4	4 35.54	2.2469	0.0061	50 2 27.6	17.163	0.177	73.4	241 242	50 2049
4446	9.0	14 4 52.50	+2.2400	−0.0060	+ 50 13 5.4	−17.150	+0.177	75.5	413 414	50 2051
4447	8.7	5 11.08	2.0992	0.0050	54 28 56.9	17.136	0.166	73.4	6 obs. [8]	54 1650
4448	7.6	5 31.92	2.1536	0.0054	52 50 33.5	17.120	0.171	71.4	79 81	52 1777
4449	8.5	5 42.82	2.1575	0.0055	52 41 16.6	17.112	0.171	84.4	795 796	52 1778
4450	9.5	5 46.18	2.1898	0.0057	51 40 43.8	17.110	0.174	81.2	78 798 800 801	51 1894

[1] Z. 177 305 306 795 796 864 [2] Z. 177 241 242 305 306. [3] Z. 795 796 864α 865 866 868
[4] Z. 798 800 801 867 868 [5] Z. 67 68 177 411 412 [6] Z. 76 78 175 241 242
[7] Z. 79 81 177 305 306 [8] Z. 67 68 71 74 549 551

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4451	8.6	$14^h\ 5^m 57^s.16$	+2ˢ.2387	−0ˢ.0059	+ 50° 2′ 45″.5	−17″.101	+0″.178	71.9	80 176	50° 2053
4452	9.1	6 7.10	2.1567	0.0054	52 37 59.0	17.094	0.172	73.4	241 242	52 1779
4453	8.1	6 16.08	2.1103	0.0050	53 57 38.6	17.087	0.168	72.4	71 74 177 307	54 1652
4454	9.2	6 26.50	2.2120	0.0057	50 50 5.4	17.079	0.176	71.4	72 73	} 50 2054
4455	9.0	6 27.54	2.2113	0.0057	50 51 9.2	17.078	0.176	71.4	72 73	
4456	9.0	14 7 0.57	+2.1274	−0.0050	+ 53 19 42.4	−17.053	+0.170	73.4	75 77 413 414	53 1693
4457	7.2	7 1.32	2.0674	0.0044	54 59 55.6	17.052	0.166	77.4	549 551	55 1664
4458	9.2	7 7.28	2.2225	0.0056	50 21 17.6	17.048	0.178	71.4	79 81	50 2055
4459	9.6	7 14.36	2.1340	0.0050	53 5 26.4	17.042	0.171	71.4	71 74	53 1694
4460	8.8	7 50.48	2.0680	0.0043	54 49 34.1[1]	17.014	0.167	74.7 73.7	67 177 549 550α	54 1653
4461	8.6	14 8 21.33	+2.1967	−0.0053	+ 50 57 7.2	−16.990	+0.177	71.9	80 176	51 1898
4462	7.9	8 23.51	2.1855	0.0052	51 17 55.4	16.989	0.177	74.1	78 413 414	51 1899
4463	8.8	8 28.70	2.1183	0.0047	53 18 28.1	16.985	0.172	71.4	71 74	53 1697
4464	7.5	8 59.10	2.1468	0.0048	52 22 24.2	16.961	0.174	71.4	79 81	} 52 1782
4465	6.2	9 0.30	2.1466	0.0048	52 22 30.6	16.960	0.174	71.4	79 81	
4466	9.2	14 9 8.41	+2.1214	−0.0046	+ 53 5 33.4	−16.954	+0.172	79.2	5 obs. [2]	53 1698
4467	8.3	9 10.31	2.1619	0.0050	51 52 52.6	16.952	0.176	74.5	176 307 413 414	51 1900
4468	9.3	10 8.90	2.1730	0.0049	51 21 10.7	16.907	0.178	71.4	76 78	51 1901
4469	8.3	10 46.70	2.1592	0.0047	51 39 31.2	16.877	0.178	80.1	80 795 796	51 1902
4470	7.2	10 54.06	2.1090	0.0042	53 7 4.1	16.871	0.174	71.4	71 74 75 77	53 1699
4471	8.4	14 10 55.50	+2.1788	−0.0048	+ 51 1 22.7	−16.870	+0.179	76.1	176 554 655 [8]	51 1903
4472	8.7	10 55.81	2.1788	0.0048	51 1 17.9	16.870	0.179	75.0	176 554	
4473	8.9	10 57.43	2.1039	0.0043	53 15 3.2	16.868	0.174	76.5	307 552 553	53 1700
4474	7.6	11 12.98	2.1593	0.0046	51 34 18.8	16.856	0.178	71.4	76 78	51 1904
4475	9.0	11 34.55	2.1535	0.0045	51 40 52.5	16.839	0.178	83.8 83.6	6 obs. [4]	51 1905
4476	7.8	14 11 36.64	+2.1836	−0.0047	+ 50 44 35.9	−16.837	+0.179	76.5	72 554 658 659	50 2058
4477	8.8	11 37.84	2.0714	0.0038	54 1 45.6	16.836	0.171	77.8	5 obs. [5]	54 1658
4478	9.2	11 39.70	2.1202	0.0042	52 39 11.2	16.835	0.175	71.4	79 81	52 1783
4479	9.1	11 39.99	2.0952	0.0040	53 22 1.8	16.835	0.173	77.1	307 656 657	53 1701
4480	**4.3**	**11 44.33**	**2.1438**	**0.0045**	**51 56 40.1**	**16.831**	**0.177**		**Fund. Cat.**	**52 1784**
4481	8.6	14 11 46.65	+2.1432	−0.0044	+ 51 57 12.3	−16.830	+0.177	76.5	413 414 552 553	52 1785
4482	8.6	11 49.46	2.0887	0.0039	53 31 5.4	16.827	0.173	71.7	71 74 177	53 1703
4483	8.1	11 51.14	2.1705	0.0046	51 6 23.4	16.826	0.179	82.8	6 obs. [6]	51 1906
4484	8.0	12 26.41	2.0729	0.0037	53 50 32.6	16.798	0.172	71.4	71 74	53 1704
4485	8.9	12 31.32	2.0290	0.0032	54 59 29.3[7]	16.794	0.169	77.5	550α 551	[55 1670]
4486	8.2	14 12 35.50	+2.1508	−0.0044	+ 51 34 21.6	−16.791	+0.178	72.4	76 78 307	51 1907
4487	9.1	12 44.11	2.0244	0.0031	55 4 17.5	16.784	0.169	84.4	798 800 801	55 1671
4488	6.3	12 54.50	2.1384	0.0042	51 53 9.8	16.776	0.178	73.3	6 obs. [8]	51 1908
4489	7.2	13 22.40	2.1169	0.0040	52 25 58.1	16.753	0.177	71.4	79 81	52 1787
4490	9.1	13 43.12	2.1892	0.0045	50 10 10.1	16.736	0.183	73.4	241 242	50 2062
4491	8.9	14 13 53.98	+2.1807	−0.0044	+ 50 24 13.8	−16.728	+0.183	71.4	72 73	50 2063
4492	7.1	14 8.43	2.1058	0.0038	52 36 35.9	16.716	0.177	72.5	79 81 307	52 1788
4493	8.2	14 24.05	2.0344	0.0030	54 30 59.8	16.704	0.171	71.4	5 obs. [9]	54 1661
4494	9.2	14 27.10	2.1295	0.0038	51 51 54.2	16.701	0.179	71.4	76 78	51 1909
4495	9.1	15 2.61	2.1255	0.0038	51 52 36.4	16.672	0.179	72.2	80 175 176 177	51 1910
4496	8.9	14 15 9.32	+2.0864	−0.0034	+ 52 58 36.0	−16.667	+0.176	73.4	71 74 413 414	53 1706
4497	7.4	15 19.96	2.1891	0.0042	49 52 19.1	16.658	0.185	77.5	550 551	49 2291
4498	7.6	16 3.18	2.0889	0.0034	52 44 45.1	16.623	0.178	71.4	79 81	52 1793
4499	8.9	16 4.03	2.1063	0.0035	52 14 56.6	16.622	0.179	75.7	76 78 307 867	} 52 1792
4500	8.9	16 4.83	2.1058	0.0035	52 15 37.7	16.622	0.179	75.7	76 78 307 867	

[1] 34ˢ.6 33ˢ.6 34ˢ.1 [39ˢ.0] [2] Z. 75 77 795 796 798

[3] Z. 654 mean of nos. 4471 and 4472 55ˢ.70 21ˢ.1 magns. 8.9 9.1 (78.4) [4] Z. 654 798 802α 803 866 867

[5] Z. 67 68 550 800 801 [6] Z. 175 798 800 801 866 867 [7] [13ˢ.3] 29ˢ.3

[8] Z. 80 175 176 177 413 414 [9] Z. 67 68 74 75 77

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4501	8.8	$14^h\ 16^m 10^s.37$	+2ˢ.1672	−0ˢ.0040	+ 50° 24′ 41″.3	−16″.617	+0″.184	72.4	72 73 241 242	50 2065
4502	9.1	16 34.72	2.1064	0.0035	52 9 18.1	16.597	0.180	80.1	74 795 796	52 1794
4503	8.7	17 15.59	2.0168	0.0024	54 28 7.7	16.564	0.173	73.4	75 77 413 414	54 1666
4504	8.9	17 17.22	2.0166	0.0024	54 28 9.7	16.562	0.173	73.4	75 77 413 414	
4505	9.6	17 31.64	2.1761	0.0038	49 53 9.8	16.551	0.186	77.5	550 551 552 553	49 2297
4506	8.4	14 17 36.66	+2.1164	−0.0034	+ 51 40 48.6	−16.546	+0.182	71.4	76 78 80	51 1913
4507	7.9	17 46.71	2.0280	0.0025	54 5 28.4	16.538	0.174	74.5	307 308	54 1668
4508	9.3	18 10.68	2.1065	0.0033	51 52 8.3	16.518	0.181	71.4	71 74 76 78	51 1914
4509	8.4	18 41.80	2.0106	0.0025	54 22 46.2	16.493	0.174	74.5	307 308	54 1671
4510	7.0	19 6.28	2.1643	0.0036	49 58 24.2	16.472	0.187	71.4	72 73	50 2070
4511	8.8	14 19 28.98	+2.1471	−0.0034	+ 50 26 6.0	−16.453	+0.186	72.4	175 176	50 2074
4512	7.2	19 37.26	2.1573	0.0034	50 5 54.3	16.446	0.187	74.5	307 308	50 2075
4513	8.7	19 48.75	2.1324	0.0033	50 49 17.5	16.437	0.185	73.4	241 242	50 2077
4514	9.0	19 56.20	2.0906	0.0029	52 0 49.5	16.431	0.182	71.4	79 81	52 1800
4515	8.3	20 3.67	2.1625	0.0034	49 51 40.0	16.424	0.188	77.5	550 551	49 2299
4516	9.0	14 20 36.58	+2.0617	−0.0025	+ 52 42 11.2	−16.397	+0.180	75.5	413 414	52 1803
4517	8.2	20 41.26	2.1038	0.0029	51 30 26.1	16.393	0.184	71.4	76 78	51 1916
4518	9.0	20 43.25	2.0260	0.0021	53 38 21.2	16.391	0.177	71.4	71 74 75 77	53 1709
4519	9.1	20 50.78	2.0972	0.0028	51 40 15.3	16.385	0.182	73.2	80 176 307 308	51 1917
4520	**3.8**	**20 56.49**	**2.0696**	**0.0026**	**52 25 45.2**	**16.380**	**0.181**		**Fund. Cat.**	**52 1804**
4521	7.3	14 21 4.40	+2.0038	−0.0018	+ 54 9 7.4	−16.373	+0.176	75.7	5 obs. [1]	54 1678
4522	8.4	21 29.21	1.9960	0.0016	54 16 49.6	16.352	0.176	78.5	657 658 659	54 1679
4523	9.0	21 49.60	2.1225	0.0029	50 45 58.4	16.335	0.187	71.4	72 73	50 2080
4524	8.2	22 19.04	2.0329	0.0020	53 11 17.7	16.310	0.180	71.4	71 74	53 1711
4525	9.2	22 24.45	2.0997	0.0027	51 19 47.6	16.306	0.185	71.4	76 78	[51 1919]
4526	9.2	14 22 25.60	+2.1006	−0.0027	+ 51 18 4.1	−16.305	+0.185	79.2	5 obs. [2]	51 1920
4527	8.4	22 32.98	2.1101	0.0027	51 0 23.4	16.298	0.186	71.5	82 83	51 1921
4528	9.2	22 44.71	2.0355	0.0020	53 2 51.2	16.289	0.180	71.4	75 77	53 1712
4529	9.6	22 54.77	1.9766	0.0012	54 31 41.7	16.280	0.175	80.8	177 801 867	54 1680
4530	8.6	23 8.90	1.9767	0.0012	54 29 9.5	16.268	0.176	77.5	307 413 414 800	54 1681
4531	8.5	14 23 9.74	+2.0013	−0.0015	+ 53 52 2.2	−16.267	+0.177	75.5	415 416	53 1714
4532	9.4	23 15.14	2.0444	0.0020	52 43 23.8	16.263	0.181	71.4	79 81	52 1805
4533	7.7	23 16.55	2.1412	0.0029	49 57 24.0	16.261	0.190	71.8	80 89 176	50 2083
4534	9.6	23 21.45	2.0473	0.0020	52 37 44.6	16.257	0.182	73.4	241 242	52 1806
4535	8.7	23 23.38	2.0269	0.0018	53 10 3.8	16.256	0.180	71.4	71 74	53 1715
4536	9.8	14 23 32.74	+1.9878	−0.0013	+ 54 8 47.4	−16.248	+0.177	77.5	552 553	— —
4537	9.0	23 40.17	2.1436	0.0028	49 49 3.6	16.241	0.189	77.5	550 551	49 2302
4538	9.1	24 8.57	2.0158	0.0016	53 19 56.6	16.217	0.180	73.4	71 74 413 414	53 1716
4539	6.2	24 17.07	2.1205	0.0026	50 24 18.0	16.210	0.189	71.4	72 73 82 83	50 2084
4540	9.0	24 43.54	1.9416	0.0006	55 4 57.0	16.187	0.174	77.5	552 553	55 1686
4541	8.7	14 24 54.67	+1.9752	−0.0010	+ 54 14 15.3	−16.177	+0.177	71.7	75 77 177	54 1682
4542	8.9	25 8.99	2.1031	0.0024	50 46 10.6	16.163	0.188	72.4	76 78 241 242	50 2085
4543	8.7	26 24.34	2.1276	0.0024	49 50 30.8	16.100	0.192	77.5	550 551	49 2307
4544	9.4	26 30.56	2.0748	0.0020	51 21 6.6	16.094	0.187	79.3	6 obs. [3]	51 1925
4545	9.2	26 31.84	1.9744	0.0008	53 59 45.3	16.093	0.179	71.8	79 81 177	54 1685
4546	8.6	14 27 27.90	+2.1116	−0.0022	+ 50 8 17.9	−16.044	+0.192	71.4	72 73 76 78	50 2089
4547	8.4	27 29.57	2.0644	0.0017	51 28 54.6	16.043	0.187	79.3	5 obs. [4]	51 1927
4548	8.0	27 32.58	2.0608	0.0017	51 34 23.0	16.040	0.187	74.5	307 308	51 1928
4549	8.8	27 35.36	2.0855	0.0019	50 52 26.4	16.038	0.189	74.2	80 413 414	50 2090
4550	9.0	28 2.88	1.9679	0.0006	53 54 56.0	16.017	0.180	71.4	75 77	54 1686

[1] Z. 177 415 416 552 553 [2] Z. 76 78 798 802 803 [3] Z. 74 413 414 798 800 801
[4] Z. 82 83 798 800 801

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4551	9.0	$14^h\ 28^m\ 13^s.27$	+2ˢ.0638	−0ˢ.0017	+ 51° 22′ 50″.7	−16″.004	+0″.188	77.8	6 obs. [1]	51° 1929
4552	9.1	28 34.67	2.1002	−0.0020	50 17 22.4	15.986	0.192	84.8	5 obs. [2]	50 2092
4553	9.8	29 15.22	2.0606	−0.0015	51 18 11.1	15.950	0.189	71.5	82 83	— —
4554	9.0	29 23.34	2.0533	−0.0014	51 28 51.0	15.943	0.188	78.6	6 obs. [3]	51 1930
4555	7.2	29 24.45	1.9781	−0.0006	53 26 57.0	15.942	0.182	71.4	71 74	53 1719
4556	9.6	14 29 53.48	+2.0766	−0.0016	+ 50 45 8.8	−15.916	+0.191	74.1	80 413 414	50 2093
4557	8.8	29 56.68	2.0827	−0.0016	50 34 18.0	15.913	0.192	71.4	72 73	50 2094
4558	6.1	30 17.41	2.1036	−0.0018	49 54 50.5	15.895	0.194	74.5	307 308 309	50 2095
4559	8.8	30 27.02	2.0574	−0.0013	51 12 3.4	15.886	0.190	85.4	866 867	51 1932
4560	8.6	30 33.48	2.0047	−0.0008	52 35 26.0	15.880	0.185	71.4	79 81	52 1811
4561	9.0	14 30 45.40	+1.9506	−0.0001	+ 53 55 7.3	−15.870	+0.180	76 5	413 414 550 551	54 1688
4562	8.8	30 53.47	2.0426	−0.0011	51 32 2.2	15.862	0.189	73.4	241 242	51 1934
4563	9.0	30 54.71	2.0856	−0.0016	50 20 1.4	15.861	0.193	84.4	798 800 801	50 2096
4564	9.1	30 57.90	1.9040	+0.0006	54 59 18.1	15.859	0.177	78.2	554 655 656 657	55 1696
4565	9.0	31 7.60	1.9454	0.0000	53 59 15.4	15.850	0.181	76.5	414 415 552 553	54 1690
4566	9.0	14 31 36.41	+2.0556	−0.0012	+ 51 4 2.6	−15.824	+0.191	71.5	82 83	51 1935
4567	9.3	31 39.80	1.9830	−0.0004	52 58 23.4	15.821	0.184	71.4	75 77	53 1721
4568	8.9	31 40.57	2.0417	−0.0010	51 26 10.2	15.820	0.190	73.1	176 241 242	51 1936
4569	8.9	31 57.26	1.9495	0.0000	53 45 37.5	15.805	0.182	74.3	7 obs. [4]	53 1723
4570	7.9	32 8.06	2.0881	−0.0015	50 4 12.3	15.796	0.194	81.2	73 798 800 801	50 2098
4571	7.6	14 32 13.21	+2.0249	−0.0008	+ 51 48 11.0	−15.791	+0.189	71.4	76 78	51 1937
4572	9.0	33 2.56	2.0666	−0.0012	50 32 10.2	15.747	0.193	72.8	82 83 415	50 2101
4573	8.5	33 38.76	1.9868	−0.0003	52 34 23.4	15.714	0.187	71.4	79 81	52 1815
4574	7.2	33 51.20	2.0033	−0.0004	52 7 8.9	15.703	0.188	74.1	241 308 309	52 1816
4575	8.4	33 54.49	1.9445	+0.0003	53 35 8.2	15.700	0.183	73.4	75 77 413 414	53 1725
4576	8.8	14 34 15.45	+1.9922	−0.0003	+ 52 20 31.6	−15.681	+0.188	78.3	5 obs. [5]	52 1817
4577	6.2	34 17.46	1.9008	+0.0010	54 33 53.1	15.679	0.180	84.4	798 800 801	54 1693
4578	8.9	34 19.42	2.0191	−0.0006	51 37 55.4	15.677	0.190	71.4	76 78	51 1939
4579	8.8	34 33.80	2.0090	−0.0005	51 51 39.2	15.664	0.189	71.5	82 83	51 1940
4580	8.8	34 39.02	1.8970	+0.0010	54 35 54.7	15.659	0.180	75.5	415 416	54 1694
4581	8.9	14 34 54.45 [6]	+1.9290	+0.0006	+ 53 48 38.6	−15.645	+0.183	73.7	80 178 413 414	53 1726
4582	8.3	35 22.12	2.0164	−0.0004	51 32 40.2	15.620	0.191	73.0	76 78 308 309	51 1942
4583	7.4	35 25.10	1.9187	+0.0008	53 58 45.4	15.617	0.182	84.4	800 801	54 1695
4584	9.2	36 17.85	2.0123	−0.0003	51 30 44.8	15.569	0.192	72.4	76 78 308	51 1943
4585	6.9	36 57.89	1.9591	+0.0004	52 46 24.4	15.532	0.188	71.5	81 82 83	52 1819
4586	8.6	14 37 17.72	+1.9405	+0.0006	+ 53 10 53.6	−15.513	+0.186	73.4	75 77 413 414	53 1728
4587	6.9	37 27.12	1.9895	0.0000	51 55 58.5	15.505	0.191	79.5	308 309 800 801	52 1821
4588	7.7	37 55.23	1.9629	+0.0004	52 32 17.8	15.479	0.189	71.4	76 78 82 83	52 1822
4589	9.4	38 2.70	2.0350	−0.0004	50 38 48.9	15.472	0.195	71.4	72 73	50 2105
4590	9.0	39 11.83	2.0519	−0.0005	50 0 42.0	15.408	0.198	71.9	80 176	50 2107
4591	8.0	14 39 18.43	+1.9586	+0.0006	+ 52 26 38.7	−15.401	+0.190	73.5	81 308 309	52 1825
4592	7.4	39 26.81	1.8787	+0.0017	54 19 26.0	15.394	0.182	74.5	178 413 414	54 1700
4593	8.7	39 41.90	2.0072	0.0000	51 8 38.2	15.379	0.194	71.4	76 78	51 1945
4594	9.5	40 14.26	2.0322	−0.0002	50 23 56.1	15.349	0.197	85.0 84.8	800 801 866α 867	50 2109
4595	9.4	40 19.84	2.0106	0.0000	50 57 40.4	15.344	0.195	71.5	82 83	51 1948
4596	8.2	14 40 23.89	+2.0383	−0.0002	+ 50 12 32.8	−15.340	+0.198	74.5	308 309	50 2110
4597	9.0	40 24.58	1.8490	+0.0022	54 51 10.8	15.339	0.180	73.4	75 77 413 414	54 1701
4598	9.1	41 34.56	2.0121	+0.0001	50 44 34.4	15.273	0.196	71.4	72 73	50 2113
4599	9.3	41 44.78	2.0077	+0.0002	50 50 8.6	15.264	0.196	77.7	5 obs. [7]	50 2114
4600	8.4	41 53.65	1.9554	+0.0008	52 9 7.0	15.255	0.192	73.5	81 308 309	52 1826

[1] Z. 177 308 413 414 802 803
[2] Z. 798 800 801 866 867
[3] Z. 76 241 242 798 800 801
[4] Z. 80 178 308 413 414 415 416
[5] Z. 81 415 416 800 801
[6] 54ˢ.33 54ˢ.80 54ˢ.39 54ˢ.30
[7] Z. 176 241 242 804 807

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4601	9.2	14h 42m 1s.85	+2s.0069	+0s.0002	+ 50° 48′ 52″.6	−15″.248	+0″.197	80.1	80 800 801	50° 2115
4602	7.7	42 20.52	2.0012	0.0003	50 55 14.6	15.230	0.196	80.1	78 800 801	51 1951
4603	9.2	42 22.98	1.9552	0.0009	52 5 20.3	15.228	0.192	74.5	308 309	52 1827
4604	8.7	42 59.86	1.9818	0.0006	51 19 40.0	15.192	0.195	71.5	82 83	51 1952
4605	8.6	43 31.80	1.8963	0.0017	53 20 48.7	15.162	0.187	71.4	75 77	53 1734
4606	9.2	14 43 33.78	+1.9918	+0.0005	+ 50 59 31.2	−15.160	+0.197	80.1	78 800 801	51 1954
4607	8.4	43 34.11	2.0261	0.0002	50 4 59.4	15.160	0.200	74.2	241 307 308 309	50 2118
*4608	8.9	43 49.40	1.8558	0.0023	54 13 50.7	15.145	0.184	83.1	5 obs. [1]	54 1704
4609	9.2	44 1.89	1.8763	0.0020	53 44 25.5	15.133	0.186	78.5	5 obs. [2]	53 1735
4610	8.8	44 9.04	1.8784	0.0020	53 40 26.7	15.126	0.186	77.5	550 551	53 1736
4611	8.7	14 44 13.26	+1.9572	+0.0010	+ 51 46 51.2	−15.122	+0.194	71.5	82 83	51 1956
4612	7.6	44 18.11	1.9003	0.0017	53 8 45.9	15.118	0.189	78.2	554 655 656 657	53 1737
4613	8.4	44 24.79	1.9486	0.0011	51 57 56.4	15.111	0.193	71.4	79 81	52 1829
4614	9.2	44 25.80	2.0148	0.0004	50 15 50.2	15.110	0.200	71.4	72 73	50 2119
4615	8.6	44 47.65	1.8787	0.0021	53 34 45.3	15.089	0.187	73.8	178 308 309	53 1738
4616	7.8	14 45 6.82	+2.0078	+0.0005	+ 50 21 20.9	−15.071	+0.200	77.0	5 obs. [3]	50 2120
4617	9.0	45 8.76	1.8569	0.0024	54 1 38.1	15.069	0.185	84.5	800 801 802 803	54 1706
4618	7.0	45 19.24	1.8229	0.0031	54 45 2.2	15.059	0.181	75.9	5 obs. [4]	54 1708
4619	6.6	45 28.96	1.9456	0.0012	51 53 32.0	15.050	0.194	71.4	76 78	51 1957
4620	7.7	46 16.72	1.8981	0.0019	52 55 39.3	15.004	0.190	73.0	75 77 308 309	53 1741
4621	8.9	14 46 34.57	+1.9422	+0.0013	+ 51 49 32.8	−14.986	+0.194	71.4	76 78	51 1958
4622	9.0	46 45.01	1.8278	0.0030	54 27 13.2	14.976	0.184	73.0	178 243	54 1709
4623	7.2	46 45.06	1.9323	0.0015	52 2 44.4	14.976	0.194	71.4	79 81	52 1832
4624	9.1	47 23.84	1.8555	0.0026	53 45 16.6	14.938	0.187	73.0	82 83 308 309	53 1743
4625	9.0	47 25.04	1.9841	0.0009	50 39 18.1	14.937	0.199	71.4	72 73	50 2122
4626	9.0	14 47 40.45	+1.8918	+0.0021	+ 52 53 16.3	−14.922	+0.191	71.4	79 81	52 1833
4627	8.7	47 51.96	1.8298	0.0030	54 15 45.4	14.911	0.185	71.8	80 89 178	54 1710
4628	7.9	48 11.34	1.8796	0.0023	53 6 1.4	14.892	0.190	72.4	75 77 243 244	53 1744
4629	8.7	49 3.73	1.9557	0.0014	51 9 13.4	14.841	0.198	77.9	76 78 800 801	51 1965
4630	9.6	49 8.40[5]	1.8324	0.0030	54 2 19.1	14.836	0.186	81.7	243 800 802 803	54 1712
4631	9.2	14 49 17.70	+1.7866	+0.0038	+ 55 0 2.0	−14.827	+0.182	77.5	552 553	[55 1715]
4632	9.1	49 22.23	1.7852	0.0038	55 1 17.6	14.823	0.182	77.5	552 553	55 1716
4633	9.0	49 46.36	1.8062	0.0035	54 31 28.4	14.799	0.184	73.5	243 244	54 1713
4634	8.7	49 58.50	1.8230	0.0032	54 8 11.2	14.787	0.186	73.3	5 obs. [6]	54 1714
4635	9.3	50 9.79	1.8812	0.0024	52 48 16.4	14.776	0.192	71.4	79 81	52 1834
4636	8.8	14 50 12.12	+1.8332	+0.0031	+ 53 52 57.0	−14.774	+0.187	71.4	75 77 82 83	53 1747
4637	9.1	50 42.06	1.9474	0.0016	51 8 31.2	14.744	0.199	71.4	76 78	} 51 1968
4638	9.4	50 43.72	1.9471	0.0016	51 8 46.0	14.742	0.199	71.4	76 78	
4639	8.6	50 48.30	1.9010	0.0022	52 15 22.9	14.738	0.194	74.5	310 311	52 1836
4640	8.0	51 37.02	1.8116	0.0035	54 10 16.0	14.690	0.186	84.4	800 801	54 1716
4641	7.8	14 51 38.14	+1.8116	+0.0035	+ 54 10 10.6	−14.688	+0.186	74.5	307 308 309	54 1716
4642	9.0	51 39.36	1.8662	0.0027	52 57 17.0	14.687	0.192	71.5	82 83	53 1748
4643	9.3	51 40.38[7]	1.8208	0.0034	53 57 57.0	14.686	0.187	73.8	178 243 244 416	54 1715
4644	8.5	51 44.68	1.9624	0.0015	50 37 41.0	14.682	0.201	71.4	72 76 78	50 2124
4645	8.0	51 48.34	1.8602	0.0028	53 4 22.4	14.678	0.191	74.5	310 311	53 1750
4646	9.1	14 51 52.42	+1.8135	+0.0035	+ 54 5 49.2	−14.674	+0.186	77.5	552 553	54 1717
4647	8.9	51 58.89	1.8551	0.0029	53 9 53.8	14.668	0.191	78.2	554 655 656 657	53 1751
4648	5.8	52 14.25	1.9789	0.0013	50 8 27.6	14.653	0.203	71.4	79 81	50 2126
4649	8.7	53 7.79	1.8155	0.0035	53 53 39.6	14.599	0.187	72.4	6 obs. [8]	53 1752
4650	9.2	53 13.82	1.8074	0.0036	54 3 25.2	14.593	0.187	75.5	415 416	— —

[1] Z. 413 802 803 866 867 [2] Z. 178 415 416 800 801 [3] Z. 80 89 241 800 801
[4] Z. 243 415 416 550 551 [5] 8s.66 8s.18 8s.31 8s.43 [6] Z. 80 89 307 308 309.
[7] 40s.68 40s.35 40s.30 40s.20 [8] Z. 75 77 80 89 310 311

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4651	9.0	$14^h\,53^m\,17^s.17$	+1.8090	+0.0036	+ 54° 0′ 54″.3	−14″.590	+0″.187	73.2	178 243 244	54° 1719
4652	8.6	53 29.06	1.9240	0.0020	51 21 17.0	14.578	0.199	71.4	76 78	51 1970
4653	9.2	53 47.79	1.8912	0.0025	52 5 54.8	14.559	0.196	71.4	79 81	52 1838
4654	8.6	53 53.68	1.8763	0.0027	52 26 6.9	14.553	0.194	73.3	5 obs. [1]	52 1839
4655	8.6	54 0.12	1.7987	0.0038	54 8 46.0	14.547	0.187	73.5	243 244	54 1720
4656	9.1	14 54 8.26	+1.9175	+0.0021	+ 51 25 46.6	−14.539	+0.199	71.5	84 85	51 1971
4657	7.8	54 14.39	1.9504	0.0018	50 36 16.8	14.532	0.202	72.1	72 73 242	50 2127
4658	8.8	55 2.14	1.8591	0.0030	52 41 3.6	14.484	0.194	78.0	79 81 800 801	52 1840
4659	9.0	55 11.71	1.8323	0.0034	53 15 59.7	14.475	0.191	71.4	75α 77 80 89	53 1753
4660	9.3	55 24.98	1.9596	0.0017	50 13 20.5	14.461	0.204	73.5	84 308 309	50 2129
4661	9.0	14 55 32.46	+1.8699	+0.0028	+ 52 22 26.8	−14.454	+0.195	75.5	415 416	52 1841
4662	9.4	55 39.02	1.9494	0.0019	50 26 58.8	14.447	0.203	77.5	552 553	50 2130
4663	8.4	55 40.84	1.9537	0.0018	50 20 17.8	14.445	0.204	76.0	310 311 550 551	50 2131
4664	7.8	55 47.48	1.9692	0 0017	49 55 51.2	14.438	0.206	83.7 83.4	5 obs. [2]	50 2132
4665	7.3	55 50.40	1.7775	0.0043	54 22 5.4	14.436	0.186	78.6	7 obs. [3]	54 1724
4666	7.3	14 55 51.81	+1.7778	+0.0042	+ 54 21 27.1	−14.434	+0.186	77.9	8 obs. [4]	54 1725
4667	7.6	56 35.52	1.9193	0.0023	51 4 21.2	14.390	0.201	73.0	76 78 310 311	51 1972
4668	8.6	56 38.47	1.9096	0.0024	51 18 2.5	14.387	0.201	71.5	82 83 84 85	51 1973
4669	8.7	57 1.32	1.8388	0.0034	52 53 44.7	14.364	0.192	73.3	5 obs. [5]	52 1842
4670	8.5	58 0.54	1.9282	0.0022	50 40 44.9	14.303	0.203	71.4	72 73 84 85	50 2134
4671	9.1	14 58 4.77	+1.9086	+0.0025	+ 51 8 46.4	−14.299	+0.201	72.5	6 obs. [6]	51 1975
4672	9.3	58 11.08	1.7770	0.0043	54 5 32.3	14.292	0.188	72.5	80 89 243 244	54 1728
4673	7.1	58 38.19	1.8646	0.0031	52 6 42.1	14.265	0.197	73.8	81 307 308 309	52 1844
4674	8.0	59 20.49	1.8380	0.0035	52 37 44.3	14.221	0.195	74.6	76 78 79 800	52 1846
4675	8.5	15 0 10.93	1.9278	0.0024	50 25 6.5	14.169	0.205	73.0	84 85 308 309	50 2135
4676	9.2	15 0 37.15	+1.9418	+0.0022	+ 50 1 12.3	−14.142	+0.207	77.1	241 242 800	50 2136
4677	8.8	1 23.06	1.8327	0.0037	52 30 8.9	14.095	0.196	71.4	76 78 79 81	52 1849
4678	8.8	1 23.32	1.9325	0.0024	50 9 22.8	14.094	0.206	74.5	308 309	50 2138
4679	8.8	1 25.94	1.9060	0.0027	50 47 45.6	14.092	0.204	71.5	84 85	50 2137
4680	8.9	1 45.52	1.9383	0.0023	49 58 1.1	14.071	0.207	74.0	241 242 310 311	50 2140
4681	8.9	15 2 16.79	+1.7494	+0.0049	+ 54 10 51.8	−14.039	+0.188	73.7	5 obs. [7]	54 1730
4682	9.3	2 18.26	1.8544	0.0034	51 54 13.2	14.037	0.198	71.5	80 82 83 89	51 1978
4683	5.7	2 42.61	1.7043	0.0057	55 2 18.4	14.012	0.184	77.5	550 551 553	55 1730
4684	8.5	2 50.13	1.8130	0.0041	52 46 1.7	14.004	0.195	71.4	76 78 79 81	52 1850
4685	8.0	3 10.03	1.7630	0.0047	53 47 47.8	13.983	0.188	71.5	84 85	53 1761
4686	7.2	15 3 36.89	+1.7876	+0.0044	+ 53 13 29.7	−13.955	+0.193	73.2	178 243 244	53 1762
4687	9.2	3 40.44	1.8687	0.0033	51 24 39.4	13.951	0.202	73.0	82 83 310 311	51 1979
4688	8.4	3 47.30	1.8094	0.0041	52 44 0.0	13.944	0.196	73.4	241 242	52 1852
4689	7.6	3 52.46	1.7745	0.0046	53 28 22.7	13.939	0.192	74.5	308 309	53 1763
4690	9.0	3 57.54	1.8119	0.0041	52 39 32.7	13.933	0.196	71.4	79 81	52 1853
4691	9.4	15 4 21.02	+1.8759	+0.0032	+ 51 9 51.4	−13.909	+0.203	71.4	80 89	51 1980
4692	5.9	4 21.50	1.9022	0.0029	50 32 22.1	13.908	0.206	73.5	241 242 245 246	50 2146
4693	9.2	4 50.64	1.7979	0.0043	52 51 38.2	13.878	0.195	71.4	79 81	52 1856
4694	7.5	4 54.50	1.7562	0.0049	53 44 18.9	13.874	0.191	73.7	5 obs. [8]	53 1766
4695	8.9	4 59.20	1.9282	0.0026	49 49 54.3	13.869	0.209	74.5	310 311	49 2358
4696	7.9	15 5 13.06	+1.8567	+0.0035	+ 51 30 27.4	−13.854	+0.202	71.5	82 83	51 1981
4697	9.0	5 24.66	1.8514	0.0036	51 36 19.6	13.842	0.201	71.5	84 85	51 1983
4698	8.5	5 53.18	1.8245	0.0040	52 9 24.2	13.812	0.199	71.4	79 81	52 1857
4699	9.1	5 54.83	1.7896	0.0044	52 55 2.5	13.810	0.195	73.8	243 244 309	53 1768
4700	9.4	5 59.21	1.8857	0.0032	50 44 30.4	13.805	0.205	74.0	241 242 310 311	50 2149

[1] Z. 82 83 307 308 309
[2] Z. 657 802α 803 866 867
[3] Z. 243 244 554 660 661 800 801
[4] Z. 178 243 244 554 660 661 800 801
[5] Z. 79 81 307 308 309
[6] Z. 76 78 82 83 310 311
[7] Z. 178 243 244 308 309
[8] Z. 178 243 244 308 309

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4701	8.5	15h 6m 6.88	+1.7900	+0.0044	+ 52°53′ 12.1	−13.797	+0.194	72.5	80 89 308	52° 1858
4702	9.4	6 7.28	1.8483	0.0036	51 35 42.1	13.797	0.202	71.5	82 83	51 1984
4703	9.1	6 46.25	1.8889	0.0032	50 34 28.9	13.755	0.206	73.7	84 85 310 415 416	50 2150
4704	8.8	7 22.30	1.8595	0.0035	51 11 35.8	13.717	0.204	72.5	82 83 309	51 1987
4705	7.6	7 38.23	1.8931	0.0032	50 22 26.8	13.700	0.207	73.5	84 85 415 416	50 2153
4706	9.0	15 7 53.85	+1.8172	+0.0041	+ 52 5 23.6	−13.684	+0.200	73.0	79 81 310 311	52 1859
4707	9.0	8 4.58	1.7250	0.0055	54 1 16.8	13.672	0.190	73.5	243 244	54 1733
4708	8.8	8 35.15	1.7068	0.0058	54 19 47.9	13.639	0.188	74.5	309 310 311	54 1734
4709	8.0	8 39.07	1.7506	0.0051	53 25 58.0	13.635	0.193	71.4	80 89	53 1770
4710	7.8	8 46.66	1.7516	0.0051	53 23 52.8	13.627	0.193	71.5	84 85	53 1771
4711	7.1	15 9 3.81	+1.8918	+0.0032	+ 50 14 34.3	−13.609	+0.208	73.7	82 83 312 415 416	50 2154
4712	8.4	9 4.13	1.6960	0.0060	54 29 20.2	13.608	0.187	73.5	243 244 245	54 1735
4713	8.1	10 7.92	1.8662	0.0036	50 43 33.3	13.540	0.206	73.7	84 85 312 415 416	50 2156
4714	9.6	10 25.45	1.6962	0 0060	54 20 18.2	13.521	0.188	73.5	243 244	54 1736
4715	9.2	10 27.12	1.7593	0.0050	53 3 10.8	13.519	0.195	71.4	80 89	53 1772
4716	8.4	15 10 29.39	+1.8112	+0.0043	+ 51 55 58.0	−13.517	+0.201	72.5	79 81 310	52 1860
4717	8.4	10 35.00	1.8798	0.0034	50 21 25.5	13.511	0.208	71.5	86 87	50 2157
4718	9.6	10 59.80	1.8389	0.0040	51 15 27.9	13.484	0.204	78.2 76.9	6 obs. [1]	51 1989
4719	9.2	11 19.43	1.7654	0.0050	52 49 44.0	13.463	0.195	73.0	79 81 310 311	52 1862
4720	8.8	11 23.36	1.8820	0.0035	50 12 48.8	13.459	0.209	73.7	84 85 312 415 416	50 2158
4721	8.7	15 11 57.79	+1.6942	+0.0061	+ 54 12 45.4	−13.421	+0.189	72.5	86 87 178 243 244	54 1738
4722	7.1	12 1.65	1.8275	0.0042	51 24 5.1	13.417	0.204	71.5	82 83 89	51 1990
4723	9.0	12 4.65	1.7669	0.0050	52 42 54.9	13.414	0.197	76.7	79 88 90 802 803	52 1863
4724	8.6	12 9.42	1.8271	0.0042	51 23 43.1	13.409	0.204	71.5	82 84 85	51 1992
4725	9.3	13 35.40	1.6417	0.0070	55 3 6.5	13.315	0.185	71.5	86 87	55 1740
4726	8.2	15 14 24.17	+1.7853	+0.0048	+ 52 4 21.9	−13.262	+0.201	72.5	6 obs. [2]	52 1865
4727	9.2	15 12.84	1.6869	0.0063	54 0 49.6	13.209	0.191	72.5	80 89 243 244	54 1739
4728	7.5	15 33.78	1.8430	0.0042	50 40 2.0	13.186	0.207	71.5	84 85	50 2165
4729	9.0	15 39.76	1.7874	0.0048	51 53 30.6	13.179	0.201	71.5	88 90	51 1993
4730	9.2	15 42.56	1.8778	0.0037	49 50 31.9	13.176	0.212	71.5	86 87	49 2378
4731	8.5	15 16 9.75	+1.7452	+0.0054	+ 52 44 11.4	−13.146	+0.198	76.5	7 obs. [3]	52 1867
4732	9.0	16 14.00	1.7222	0.0058	53 12 3.1	13.141	0.195	72.2	90 178 179	53 1773
4733	8.8	16 16.94	1.7457	0.0054	52 42 46.9	13.138	0.198	77.6 76.5	8 obs. [4]	52 1868
4734	5.8	16 24.77	1.7595	0.0052	52 24 34.8	13.129	0.200	76.5	86 554 656 657	52 1869
4735	8.6	17 9.06	1.8258	0.0043	50 53 17.8	13.081	0.207	71.5	84 85	50 2169
4736	9.4	15 17 13.14	+1.8105	+0.0045	+ 51 13 20.1	−13.076	+0.206	71.5	82 83	51 1995
4737	7.5	17 36.30	1.6555	0.0068	54 22 36.5	13.050	0.189	76.5	6 obs. [5]	54 1742
4738	7.6	17 50.28	1.7341	0.0056	52 47 32.4	13.035	0.198	73.0	79 81 310 311	52 1873
4739	8.5	17 57.26	1.6980	0.0062	53 30 42.5	13.027	0.194	71.8	88 90 178	53 1775
4740	8.8	18 6.34	1.8357	0.0043	50 33 48.8	13.017	0.209	71.5	84 85	50 2170
4741	9.8	15 18 22.28	+1.7763	+0.0050	+ 51 50 51.4	−12.999	+0.203	84.5	802 803	51 1999
4742	8.6	18 22.88	1.7865	0.0049	51 37 37.2	12.999	0.204	71.5	82 83	51 1998
4743	8.9	19 7.57[6]	1.6460	0.0070	54 24 22.1	12.949	0.189	73.2 73.5	178 243 244 312δ	54 1743
4744	8.6	19 13.04	1.7367	0.0056	52 35 49.2	12.943	0.199	72.5	6 obs. [7]	52 1874
4745	8.9	19 13.46	1.8509	0.0041	50 5 55.0	12.942	0.212	71.5	84 85	50 2171
4746	8.8	15 19 15.30	+1.8260	+0.0044	+ 50 39 50.9	−12.941	+0.209	71.5	86 87	50 2172
4747	9.3	19 53.34	1.8208	0.0045	50 42 53.8	12.898	0.209	71.5	82 83	50 2173
4748	8.2	20 0.94	1.8531	0.0041	49 57 58.2	12.890	0.212	71.5	84 85	50 2174
4749	8.9	20 20.47	1.6542	0.0069	54 7 40.9	12.868	0.190	72.9	80 89 243 244 312	54 1744
4750	8.4	21 8.35	1.7723	0.0051	51 39 2.4	12.814	0.204	72.5	82 83 241 242	51 2000

[1] Z. 83 88 90 802 803α 869
[2] Z. 79 81 82 83 310 311
[3] Z. 79 81 242 310 311 803 869
[4] Z. 79 81 309 310 311 802 803 869α
[5] Z. 80 89 243 244 802 803
[6] 7.65 7.54 7.53 [7.19]
[7] Z. 79 81 88 90 310 311

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4751	8.3	$15^h\ 21^m\ 8^s.67$	+1ˢ.7508	+0ˢ.0054	+ 52° 6′ 26″.7	−12″.814	+0″.202	72.7	5 obs. [1]	52° 1875
4752	7.2	21 11.45	1.6219	0.0074	54 39 19.0	12.811	0.187	72.5	5 obs. [2]	54 1745
4753	7.0	21 47.42	1.7977	0.0048	51 1 59.5	12.770	0.208	71.5	86 87	51 2003
4754	9.0	21 59.54	1.8322	0.0044	50 14 33.1	12.757	0.212	71.5	84 85	50 2175
4755	8.8	22 20.90	1.7595	0.0053	51 48 10.3	12.732	0.204	72.5	82 83 241 242	51 2006
4756	7.2	15 22 52.53	+1.7250	+0.0058	+ 52 28 17.2	−12.697	+0.200	71.5	79 81 88 90	52 1876
4757	9.4	23 2.48	1.7902	0.0049	51 4 20.4	12.686	0.208	71.5	86 87	51 2007
4758	6.8	23 8.48	1.6224	0.0074	54 27 24.5	12.679	0.189	72.5	80 89 312	54 1747
4759	9.6	23 16.86	1.7732	0.0052	51 25 3.4	12.669	0.206	74.5	310 311	51 2008
4760	7.5	23 31.15	1.7889	0.0050	51 3 15.0	12.653	0.208	73.5	245 246	51 2009
4761	8.8	15 23 31.67	+1.8275	+0.0045	+ 50 11 44.3	−12.653	+0.212	71.5	84 85	50 2177
4762	8.6	23 51.39	1.6602	0.0068	53 40 5.6	12.630	0.194	73.0	178 179 243 244	53 1781
4763	7.6	23 55.00	1.8010	0.0048	50 44 55.3	12.626	0.209	78.0	86 87 802 803	50 2178
4764	8.6	24 17.37	1.7404	0.0056	52 0 48.2	12.601	0.203	71.4	79 81	52 1877
4765	9.0	24 20.58	1.8241	0.0046	50 11 26.0	12.597	0.212	81.9 81.2	5 obs. [3]	50 2179
4766	9.4	15 24 24.38	+1.7867	+0.0050	+ 51 0 50.2	−12.593	+0.208	73.0	82 83 310 311	51 2010
4767	9.1	24 25.94	1.8356	0.0044	49 55 16.2	12.591	0.214	78.5	660 661	49 2388
4768	8.7	24 33.03	1.8276	0.0045	50 5 29.4	12.583	0.213	75.8	84 85 802	50 2180
4769	9.1	24 41.71	1.7323	0.0057	52 8 27.7	12.573	0.202	76.2	6 obs. [4]	52 1878
4770	9.2	24 48.62	1.8330	0.0045	49 56 36.3	12.566	0.214	84.5	802 803	49 2389
4771	9.1	15 25 0.53	+1.5993	+0.0078	+ 54 42 18.8	−12.552	+0.187	72.5	91 92 243 244	54 1748
4772	8.9	25 18.30	1.7888	0.0050	50 52 44.2	12.532	0.209	71.5	86 87	50 2182
4773	9.2	25 29.28	1.7674	0.0053	51 19 28.0	12.519	0.207	76.3	6 obs. [5]	51 2012
4774	9.0	25 39.24	1.7872	0.0050	50 52 47.5	12.508	0.208	71.5	84 85	50 2183
4775	9.1	25 51.25	1.7946	0.0050	50 41 55.4	12.494	0.210	71.5	88 90	50 2184
4776	8.4	15 25 58.28	+1.7830	+0.0051	+ 50 56 24.5	−12.486	+0.209	71.5	82 83	51 2013
4777	9.2	26 8.64	1.6008	0.0078	54 34 12.7	12.474	0.187	71.5	91 92	54 1749
4778	9.2	26 20.76	1.6561	0.0069	53 30 32.5	12.460	0.194	73.0	79 81 310 311	53 1784
4779	9.2	26 50.76	1.6528	0.0070	53 31 28.5	12.426	0.194	80.2	88 802 803	53 1786
4780	8.8	27 8.99	1.6053	0.0077	54 23 40.0	12.405	0.189	71.5	91 92	54 1750
4781	9.0	15 27 10.00	+1.6134	+0.0075	+ 54 14 27.5	−12.404	+0.190	73.5	243 244	54 1751
4782	9.0	27 11.43	1.7546	0.0055	51 25 56.2	12.402	0.206	71.5	80 84 85 89	51 2014
4783	9.4	27 26.08	1.6550	0.0069	53 25 40.0	12.386	0.195	73.8	178 245 308 309	53 1787
4784	8.4	27 43.65	1.5691	0.0093	54 59 58.2	12.365	0.185	74.5	310 311	55 1759
4785	8.8	27 47.52	1.7915	0.0050	50 34 45.2	12.361	0.211	71.5	82 83	50 2188
4786	8.7	15 28 13.03	+1.6345	+0.0072	+ 53 44 51.2	−12.332	+0.193	81.5	90 802 803 869	53 1788
4787	8.4	28 32.03	1.5708	0.0092	54 53 41.6	12.310	0.186	73.0	91 92 308 309	54 1752
4788	9.3	29 9.62	1.6819	0.0065	52 44 15.7	12.266	0.199	74.8	86 87 92 803	52 1879
4789	9.0	29 16.56	1.7950	0.0050	50 21 41.0	12.258	0.212	71.5	82 83	50 2190
4790	9.2	29 26.32	1.6786	0.0066	52 46 37.6	12.247	0.199	80.5	87 802 869	52 1880
4791	8.2	15 29 43.53	+1.7832	+0.0052	+ 50 34 39 1	−12.227	+0.211	71.5	84 85	50 2191
4792	8.4	30 10.93	1.6379	0.0072	53 30 2.6	12.196	0.195	72.0	6 obs. [6]	53 1790
4793	8.7	30 54.80	1.7874	0.0052	50 22 26.8	12.145	0.213	71.5	82 83	50 2193
4794	9.0	31 12.49	1.7122	0.0061	51 56 15.9	12.124	0.204	75.6	7 obs. [7]	52 1883
4795	6.6	31 28.32	1.7832	0.0052	50 24 47.4	12.106	0.212	71.5	84 85	50 2194
4796	8.4	15 31 29.87	+1.7967	+0.0050	+ 50 6 49.2	−12.104	+0.214	71.5	91 92	50 2195
4797	8.4	31 45.88	1.6119	0.0076	53 50 52.1	12.085	0.193	72.5	88 90 309	53 1793
4798	6.3	31 57.87	1.5845	0.0080	54 20 12.8	12.071	0.190	71.8	80 89 179	54 1756
4799	8.6	31 58.58	1.7622	0.0055	50 49 12.8	12.071	0.210	71.5	82 83	50 2196
4800	8.6	32 32.30	1.7744	0.0053	50 30 20.2	12.031	0.212	71.5	84 85	50 2197

[1] Z. 79 88 90 310 311
[2] Z. 91 92 178 243 244
[3] Z. 88 802α 804 805 806
[4] Z. 245 309 312 554 658 659
[5] Z. 308 310 311 554 658 659
[6] Z. 80 89 90 178 179 180
[7] Z. 86 87 178 181 182 802 803

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4801	6.4	15h 32m 34.12	+1.6792	+0.0066	+ 52°28′48.2	−12.029	+0.201	71.5	86 87	52° 1886
4802	6.4	32 44.34	1.5411	0.0087	55 2 39.7	12.017	0.185	80.1	5 obs. [1]	55 1766
4803	9.5	32 47.33	1.7845	0.0052	50 15 45.8	12.014	0.214	71.5	91 92	50 2199
4804	9.1	32 56.52	1.5826	0.0080	54 17 4.0	12.003	0.190	75.8	93 180 309 802	54 1757
4805	9.0	33 14.83	1.7521	0.0056	50 55 13.8	11.982	0.210	71.5	86 87	50 2200
4806	9.1	15 33 57.97	+1.7139	+0.0061	+ 51 39 6.4	−11.931	+0.206	71.5	82 83	51 2016
4807	7.5	34 14.34	1.7675	0.0054	50 30 0.8	11.912	0.212	71.5	84 85	50 2204
4808	6.3	34 19.31	1.5404	0.0087	54 55 7.7	11.906	0.186	72.5	80 89 309	54 1758
4809	6.3	34 55.23	1.7491	0.0056	50 49 53.8	11.864	0.211	71.5	82α 83 91 92	50 2206
4810	9.5	35 0.89	1.6425	0.0071	52 58 42.9	11.857	0.198	80.2	93 802 803	53 1797
4811	9.0	15 35 2.31	+1.6933	+0.0064	+ 51 58 27.8	−11.856	+0.204	71.5	87 88 90	52 1889
4812	8.2	35 21.14	1.6919	0.0064	51 58 30.8	11.833	0.204	72.2	87 88 90 309	52 1890
4813	9.2	35 54.25	1.7762	0.0053	50 9 44.8	11.794	0.214	71.5	84 85	50 2207
4814	8.7	36 45.16	1.7692	0.0054	50 14 20.2	11.734	0.214	71.5	82 83	50 2208
4815	9.6	37 5.88	1.6786	0.0066	52 5 21.3	11.710	0.204	72.5	89 90 309	52 1894
4816	9.0	15 37 27.51	+1.6658	+0.0068	+ 52 18 42.2	−11.684	+0.203	71.8	86 87 178	52 1895
4817	8.5	37 35.08	1.7487	0.0057	50 36 15.8	11.675	0.212	71.5	82 83	50 2210
4818	8.8	38 3.77	1.6520	0.0070	52 31 48.0	11.641	0.201	78.8	88 309 802 803	52 1896
4819	8.8	38 5.44	1.7820	0.0053	49 50 28.0	11.639	0.216	71.5	91 92	49 2417
4820	9.3	39 17.71	1.7239	0.0060	50 58 32.7	11.553	0.210	80.2	82 802 803	51 2022
4821	6.0	15 39 26.91	+1.6341	+0.0072	+ 52 45 21.5	−11.542	+0.200	71.5	80 86 87 89	52 1898
4822	8.6	39 29.40	1.5146	0.0090	54 55 55.8	11.539	0.186	78.5	181 182 802 803	55 1773
4823	9.0	39 37.61	1.6814	0.0066	51 48 55.7	11.529	0.206	71.5	85α 93 95	51 2023
4824	9.3	39 57.52	1.7263	0.0060	50 52 7.4	11.506	0.211	71.5	91 92	50 2211
4825	9.3	40 22.90	1.5957	0.0078	53 24 11.9	11.475	0.196	71.5	88 90	53 1804
4826	8.4	15 40 36.42	+1.7027	+0.0063	+ 51 18 4.7	−11.459	+0.209	71.5	82 83	51 2025
4827	8.4	40 46.02	1.5997	0.0077	53 17 48.3	11.448	0.196	72.0	91 92 179 180	53 1805
4828	8.0	41 5.37	1.5941	0.0078	53 22 24.8	11.424	0.196	71.5	93 95	53 1806
4829	9.3	41 21.77	1.6304	0.0072	52 40 0.1	11.405	0.200	71.5	80 86 87 89	52 1901
4830	7.0	41 57.04	1.6068	0.0076	53 4 0.3	11.362	0.198	71.5	88 90	53 1807
4831	9.0	15 42 7.04	+1.7082	+0.0062	+ 51 3 39.7	−11.350	+0.210	71.5	84 85	51 2028
4832	9.0	42 35.42	1.7494	0.0057	50 9 33.8	11.316	0.216	71.5	91 92	50 2215
4833	9.2	42 38.50	1.5388	0.0086	54 14 57.6	11.313	0.191	71.5	93 95	54 1767
4834	8.2	42 55.31	1.6987	0.0063	51 11 12.6	11.292	0.210	71.5	82 83	51 2030
4835	7.7	43 0.11	1.6303	0.0072	52 32 2.5	11.286	0.201	71.5	86 87	52 1903
4836	9.6	15 43 31.32	+1.6392	+0.0071	+ 52 19 11.2	−11.249	+0.203	84.5	802 803	52 1904
4837	8.4	43 32 61	1.6368	0.0071	52 21 48.7	11.247	0.202	72.0	88 90 181 182	52 1905
4838	9.0	43 37.44	1.6566	0.0069	51 58 20.4	11.241	0.205	72.5	183 184	52 1906
4839	9.2	43 43.66	1.5475	0.0084	54 0 29.1	11.234	0.192	71.5	93 95	54 1769
4840	8.9	43 48.12	1.7193	0.0061	50 41 28.4	11.229	0.213	71.5	84 85	50 2216
4841	8.4	15 43 54.41	+1.6300	+0.0072	+ 52 27 54.7	−11.221	+0.202	78.0 80.2	86α 87 805 806	52 1907
4842	9.2	43 54.85	1.7391	0.0058	50 16 2.2	11.220	0.215	71.5	91 92	50 2217
4843	8.8	44 27.98	1.5809	0.0079	53 20 29.8	11.180	0.196	78.0	88 90 802 803	53 1812
4844	8.0	44 29.04	1.7311	0.0059	50 23 17.4	11.179	0.214	80.2	87 805 806	50 2218
4845	8.2	44 42.80	1.6840	0.0065	51 20 18.0	11.162	0.209	71.5	82 83	51 2032
4846	8.6	15 45 0.89	+1.7376	+0.0059	+ 50 12 29.0	−11.140	+0.215	71.5	84 85	50 2219
4847	9.0	45 28.74	1.5366	0.0086	54 3 40.6	11.107	0.191	71.5	88 90	54 1771
4848	9.0	46 22.20	1.7065	0.0062	50 44 40.9	11.042	0.212	71.5	84 85	50 2223
4849	8.3	46 44.12	1.6796	0.0066	51 15 42.6	11.015	0.210	71.5	82 83	51 2034
4850	8.3	47 4.38	1.6332	0.0072	52 8 54.9	10.990	0.204	71.5	86 87	52 1910

[1] Z. 181 182 802 869 871

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4851	8.8	$15^h\ 47^m\ 32^s.07$	$+1^s.6061$	$+0^s.0075$	$+\ 52°\ 37'\ 43''.4$	$-10''.956$	$+0''.201$	78.0	89 91 805 806	52° 1911
4852	8.4	47 45.53	1.6781	0.0066	51 12 38.2	10.940	0.210	71 5	82 83	51 2036
4853	9.1	47 52.89	1.5694	0.0080	53 16 58.0	10.931	0.196	72.0	88 90 179 180	53 1816
4854	7.6	47 53.59	1.5694	0.0080	53 16 55.6	10.930	0.196	72.0	88 90 179 180	
4855	9.0	47 55.96	1.7286	0.0060	50 9 41.8	10.927	0.216	71.5	84 85	50 2225
4856	8.4	15 48 22.46	+1.6376	+0.0071	+ 51 57 37.4	−10.895	+0.205	71.5	86 87	52 1912
4857	9.1	48 40.66	1.5848	0.0078	52 56 12.4	10.872	0.199	71.5	91 92	52 1913
4858	9.1	48 41.78	1.5847	0.0078	52 56 14.6	10.871	0.199	71.5	91 92	
4859	9.0	49 1.68	1.7295	0.0060	50 3 13.5	10.847	0.217	71.5	82 83	50 2227
4860	8.5	49 20.62	1.6924	0 0064	50 47 44.8	10.824	0.212	71.5	84 85	50 2228
4861	9.8	15 49 38.65	+1.5395	+0.0084	+ 53 41 13.3	−10.801	+0.194	72.0	88 90 179 180	53 1821
4862	8.3	49 53.90	1.5066	0.0089	54 14 48.6	10.783	0.190	71.5	91 93 95	54 1778
4863	8.6	50 4.50	1.6383	0.0071	51 48 55.2	10.770	0.206	71.5	82 83	51 2038
4864	8.4	50 22.76	1.5708	0.0080	53 3 53.1	10.747	0.198	71.5	86 87	53 1824
4865	9.0	50 53.63	1.7103	0.0062	50 18 32.2	10.709	0.216	71.5	84 85 90	50 2229
4866	9.4	15 51 11.23	+1.7060	+0.0062	+ 50 22 29.5	−10.687	+0.215	71.5	82 88 89	50 2231
4867	8.3	51 26.21	1.7124	0.0062	50 13 25.1	10.669	0.216	72.0	84 85 181 182	50 2233
4868	9.0	51 40.72	1.5817	0.0078	52 45 57.6	10.651	0.200	71.5	86 87	52 1918
4869	8.4	52 16.70	1.4877	0.0091	54 23 40.4	10.606	0.189	71.9	5 obs. [1]	54 1780
4870	8.9	52 43.15	1.4827	0.0092	54 26 48.6	10.574	0.188	80.8	95 869 871	54 1781
4871	9.4	15 52 44.57 [2]	+1.4831	+0.0092	+ 54 26 16.8	−10.572	+0.188	85.5 85.2	806δ 869 871	54 1781
4872	9.1	52 54.88	1.4776	0.0092	54 31 11.3	10.559	0.188	72.8	92 245 246	54 1782
4873	9.2	54 31.90	1.6667	0.0067	50 55 0.6	10.439	0.212	71.5	84 85	50 2237
4874	9.4	54 45.60	1.6206	0.0072	51 48 9.5	10.422	0.206	71.5	82 83	51 2042
4875	**5.1**	**54 49.56**	**1.4344**	**0.0099**	**55 6 12.9**	**10.417**	**0.183**		**Fund. Cat.**	**55 1793**
4876	8.6	15 54 56.73	+1.6582	+0.0068	+ 51 3 18.5	−10.408	+0.211	71.5	86 87 89	51 2043
4877	9.2	55 13.19	1.6790	0.0065	50 37 5.6	10.387	0.214	77.1 78.2	5 obs. [3]	50 2238
4878	8.8	55 13.81	1.4483	0.0096	54 50 41.2	10.386	0.185	71.5	91 92	54 1786
4879	9.2	55 17.80	1.6502	0.0068	51 11 11.2	10.381	0.210	71.5	88 90	51 2045
4880	6.0	55 31.58	1.6966	0.0063	50 14 17.2	10.364	0.216	71.5	84 85	50 2239
4881	6.7	15 55 40.39	+1.6586	+0.0067	+ 50 59 33.9	−10.353	+0.212	72.8	83 245 246	51 2046
4882	9.6	55 56.56	1.4393	0.0097	54 56 35.2	10.333	0.184	77.2	310 660 661	55 1796
4883	9.1	55 57.67	1.6015	0.0074	52 4 40.2	10.332	0.205	72.2	86 183 184	52 1924
4884	7.7	56 26.00	1.5215	0.0085	53 30 19.0	10.296	0.195	76.5	7 obs. [4]	53 1832
4885	8.4	56 28.64	1.6955	0.0063	50 11 25.0	10.293	0.217	71.5	93 95	50 2243
4886	7.5	15 56 30.32	+1.6924	+0.0063	+ 50 15 5.8	−10.291	+0.216	71.5	84 85	50 2244
4887	8.1	56 31.84	1.6471	0.0068	51 9 29.3	10.289	0.211	71.5	88 90	51 2048
4888	8.6	56 32.44	1.6284	0.0071	51 31 19.8	10.288	0.208	71.5	82 83	51 2049
4889	8.5	57 9.61	1.6442	0.0069	51 10 8.6 [5]	10.242	0.211	71.5	88 89 90α	51 2050
4890	9.2	57 12.74	1.7086	0.0062	49 52 5.6	10.238	0.219	74.5	310 311	49 2448
4891	8.9	15 57 19.97	+1.5844	+0.0076	+ 52 17 54.0	−10.228	+0.203	71.5	86 87	52 1928
4892	7.6	57 20.39	1.4708	0.0092	54 19 2.7	10.228	0.189	71.5	91 92	54 1787
4893	8.4	57 21.17	1.4376	0.0097	54 52 19.2	10.227	0.185	71.5	93 95	54 1788
4894	9.0	57 48.88	1.6682	0.0066	50 38 43.0	10.192	0.214	71.5	91 93	[50 2245]
4895	8.8	57 59.96	1.6834	0.0064	50 19 36.2	10.178	0.216	71.5	84 85	50 2246
4896	8.0	15 58 4.74	+1.5722	+0.0078	+ 52 28 17.2	−10.172	+0.202	73.0	86 87 310 311	52 1929
4897	8.4	58 26.50	1.6122	0.0072	51 41 40.4	10.145	0.207	71.5	82 83	51 2051
4898	9.2	58 27.85	1.6674	0.0066	50 36 53.8	10.143	0.214	81.8	95 805 869 871	50 2247
4899	6.0	58 54.26	1.5252	0.0084	53 15 49.1	10.110	0.197	72.2	88 90 178 244	53 1834
4900	9.0	59 37.18	1.6806	0.0064	50 16 4.6	10.056	0.216	71.5	84 89	50 2248

[1] Z. 91 92 93 179 180

[2] [43".87] 44".62 44".53

[3] Z. 93 181 182α 805 806

[4] Z. 178 243 244 245 246 805 806

[5] 7".3 9".8 [3".2]

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4901	9.2	15h 59m 39s.41	+1s.5605	+0s.0079	+ 52°34′ 31″.4	−10″.053	+0″.201	75.3	86 87 310 311 810	52° 1930
4902	9.2	59 57.04	1.6408	0.0069	51 2 4.8	10.031	0.212	71.5	82 83	51 2053
4903	8.0	16 0 7.32	1.5036	0.0086	53 33 37.1	10.018	0.194	72.1	88 90 178 179 180	53 1835
4904	8.9	0 9.05	1.4908	0.0088	53 46 48.1	10.016	0.190	84.8	805 806 810 870	53 1836
4905	8.9	0 19.94	1.5574	0.0079	52 35 5.6	10.002	0.201	80.5 79.8	8 obs. [1]	52 1932
4906	8.3	16 0 21.65	+1.4915	+0.0088	+ 53 45 11.8	−10.000	+0.193	80.8	244 809 810	53 1837
4907	9.2	0 22.02	1.6485	0.0068	50 51 19.2	9.999	0.213	80.2	92 805 806	50 2250
4908	8.8	0 47.04	1.6477	0.0068	50 50 26.9	9.968	0.213	76.7 78.0	84 91α 92 805 806	50 2251
4909	8.7	1 6.85	1.5600	0.0079	52 29 2.8	9.942	0.202	74.7	86 87 181 182 869	52 1934
4910	9.0	1 15.52	1.5960	0.0074	51 48 17.4	9.932	0.206	71.5	82 83	51 2056
4911	8.2	16 1 22.29	+1.5267	+0.0083	+ 53 4 1.8	− 9.923	+0.198	71.5	88 90	53 1839
4912	8.4	1 30.72	1.4266	0.0097	54 46 6.6	9.912	0.185	73.5	245 246	} 54 1791
4913	8.7	1 33.49	1.4268	0.0097	54 45 46.9	9.909	0.185	75.6	93 555 556	
4914	8.8	1 42.15	1.5629	0.0078	52 23 25.1	9.898	0.202	73.5	89 310 311	52 1935
4915	9.1	2 6.22	1.4246	0.0097	54 45 41.2	9.867	0.185	80.2	93 805 806	54 1792
4916	9.0	16 2 8.28	+1.5601	+0.0078	+ 52 24 42.2	− 9.865	+0.202	78.0	84 813	[52 1936]
4917	9.4	2 9.54	1.5580	0.0078	52 26 56.7	9.863	0.202	75.8 71.5	86 87 814α	52 1937
4918	9.2	2 29.91[2]	1.5618	0.0078	52 21 20.8	9.837	0.203	80.2 81.2	91 808δ 809 810	52 1938
4919	9.3	2 51.31	1.5563	0.0078	52 25 56.9	9.810	0.202	79.3	9 obs. [3]	52 1939
4920	8.4	3 6.75	1.5431	0.0080	52 39 14.8	9.790	0.201	71.5	86 87	52 1941
4921	8.6	16 3 11.62	+1.4875	+0.0088	+ 53 37 51.8	− 9.784	+0.194	71.5	88 90	53 1841
4922	8.4	3 13.53	1.4744	0.0089	53 51 14.1	9.782	0.192	72.5	178 179 180	53 1842
4923	9.2	3 18.14	1.5546	0.0079	52 26 0.4	9.776	0.202	78.9 78.0	7 obs. [4]	52 1942
4924	8.9	4 35.41	1.4189	0.0096	54 41 28.1	9.677	0.186	78.0	92 809 810	54 1796
4925	8.8	4 42.70	1.6232	0.0070	51 3 2.2	9.668	0.212	72.5	183 184	51 2058
4926	8.8	16 4 47.45	+1.5366	+0.0080	+ 52 39 36.2	− 9.662	+0.200	73.0	84 90 310 311	52 1943
4927	8.8	5 11.14	1.5990	0.0073	51 28 49.0	9.632	0.209	73.5	245 246	51 2059
4928	8.9	5 16.40	1.4060	0.0098	54 51 28.0	9.625	0.184	72.2	93 178 179 180	54 1797
4929	8.6	5 18.99	1.5727	0.0076	51 57 58.0	9.622	0.205	71.5	86 87	52 1944
4930	8.5	5 27.69	1.6136	0.0071	51 11 6.5	9.610	0.211	80.8	6 obs. [5]	51 2060
4931	6.7	16 5 43.03	+1.6475	+0.0067	+ 50 30 29.6	− 9.591	+0.215	72.2	84 183 184	50 2257
4932	8.4	5 44.60	1.6191	0.0070	51 3 36.2	9.589	0.212	71.5	89 92	51 2061
4933	8.9	5 48.64	1.6674	0.0065	50 6 21.2	9.584	0.218	72.2	94 181 182	50 2258
4934	8.4	6 13.56	1.4990	0.0085	53 13 54.1	9.552	0.196	71.5	88 90	53 1848
4935	8.8	7 23.38	1.3899	0.0099	54 58 56.6	9.462	0.183	71.5	91 92	55 1818
4936	8.2	16 7 25.66	+1.4868	+0.0086	+ 53 21 59.7	− 9.459	+0.195	71.5	88 90	53 1850
4937	8.5	7 32.35	1.5376	0.0080	52 27 40.4	9.450	0.202	72.5	86 87 181 182 310	52 1948
4938	9.4	7 51.51	1.6073	0.0071	51 8 52.7	9 426	0.211	71.5	89 94 96	51 2065
4939	9.1	7 58.94	1.6544	0.0066	50 13 20.4	9.416	0.217	71.5	84 93 95	50 2259
4940	8.9	8 1.69	1.4082	0.0096	54 38 46.7	9.413	0.185	72.1	91 92 178 179 180	54 1800
4941	8.5	16 8 15.56	+1.6503	+0.0066	+ 50 17 5.7	− 9.395	+0.217	71.5	88 90	50 2260
4942	8.9	9 22.03	1.5521	0.0077	52 4 55.4	9.309	0.205	72.5	86 87 181 182 310	52 1949
4943	8.8	9 26.10	1.6244	0.0069	50 42 58.8	9.304	0.214	71.5	84 88 90	50 2262
4944	9.0	10 42.76	1.6565	0.0065	50 0 15.2	9.205	0.219	71.5	84 88	50 2263
4945	8.5	10 44.27	1.6368	0.0068	50 23 28.3	9.203	0.216	79.3	91 92 808 809 810	50 2264
4946	9.1	16 10 51.31	+1.6495	+0.0066	+ 50 7 59.2	− 9.194	+0.218	72.2	96 183 184	50 2265
4947	8.9	11 1.38	1.5353	0.0079	52 16 55.2	9.180	0.203	72.5	86 87 181 182 310	52 1951
4948	9.4	11 23.06	1.6095	0.0070	50 52 47.4	9.152	0.213	71.5	93 95	[50 2266]
4949	9.4	11 37.40	1.5612	0.0076	51 46 20.4	9.134	0.207	71.5	91 92	51 2067
4950	8.9	12 4.62	1.5285	0.0079	52 20 23.3	9.098	0.203	72.5	86 87 310	52 1952

[1] Z. 93 245 246 808 809 869α 871 872 [2] 30s.03 [29s.42] 29s.81 29s.89 [3] Z. 93 181 182 310 806 808 809 810 814
[4] Z. 84 89 91 806α 810 813 814 [5] Z. 310 660 661 808 809 810

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
4951	6.8	16h 12m 44s.34	+1s.4569	+0s.0088	+ 53° 32′ 55″.8	−9″.047	+0″.193	74.5	312 313	53° 1856
4952	9.5	12 51.22	1.6370	0.0067	50 15 17.0	9.038	0.217	71.5	84 93	[50 2267]
4953	8.8	12 56.06	1.3845	0.0097	54 43 44.1	9.032	0.184	72.5	178 179 180	54 1803
4954	9.0	13 5.93	1.5487	0.0076	51 54 42.6	9.019	0.206	71.5	91 92	51 2069
4955	8.8	13 28.10	1.4917	0.0083	52 54 21.2	8.990	0.197	72.5	181 182	52 1955
4956	8.9	16 13 54.29	+1.6306	+0.0067	+ 50 18 56.2	−8.956	+0.216	71.5	84 93 95	[50 2268]
4957	9.1	13 55.46	1.5993	0.0071	50 55 5.4	8.954	0.213	72.5	183 184	50 2269
4958	8.9	14 8.46	1.5024	0.0081	52 40 41.6	8.937	0.200	73.5	181 182 312 313	52 1956
4959	9.5	14 40.52	1.6022	0.0070	50 48 57.6	8.895	0.213	71.5	84 91 92	[50 2270]
4960	9.2	15 20.60	1.5564	0.0075	51 38 0.4	8.843	0.208	72.5	93 95 313	51 2073
4961	9.2	16 15 51.60	+1.5810	+0.0072	+ 51 8 47.4	−8.802	+0.211	71.5	91 92	51 2074
4962	8.8	15 52.65	1.4288	0.0090	53 50 2.1	8.801	0.191	72.5	178 179 180	53 1861
4963	8.4	16 28.15	1.5361	0.0077	51 56 14.8	8.754	0.205	75.1 72.5	5 obs. [1]	51 2076
4964	9.0	16 29.19	1.5398	0.0076	51 52 12.6	8.753	0.206	85.2	810 870 871	51 2077
4965	8.8	16 30.76	1.3473	0.0100	55 6 31.4	8.751	0.181	74.5	312 313	55 1830
4966	9.0	16 16 37.56	+1.6106	+0.0069	+ 50 32 20.0	−8.742	+0.215	71.5	84 85	50 2275
4967	8.8	16 44.99	1.4113	0.0092	54 4 18.8	8.732	0.189	71.5	93 95	54 1807
4968	6.8	17 14.85	1.5113	0.0079	52 20 12.2	8.693	0.202	77.1	5 obs. [2]	52 1960
4969	8.9	17 17.14	1.6317	0.0066	50 5 23.1	8.690	0.218	73.8	94 314 315 316	50 2276
4970	8.4	17 22.76	1.5224	0.0078	52 7 51.3	8.683	0.204	71.5	86 87	52 1961
4971	9.4	16 17 25.12	+1.5626	+0.0073	+ 51 23 49.4	−8.679	+0.209	72.0	91 184	51 2079
4972	9.5	17 33.92	1.3903	0.0094	54 22 1.5	8.668	0.186	76.8	245 660 661	54 1808
4973	7.8	17 55.49	1.5399	0.0076	51 47 2.8	8.640	0.206	71.5	93 95	51 2082
4974	8.8	17 58.96	1.5484	0.0075	51 37 31.4	8.635	0.208	72.5	181 182	51 2083
4975	7.8	17 59.52	1.3692	0.0096	54 40 51.9	8.634	0.184	74.5	312 313	54 1809
4976	8.4	16 18 6.25	+1.5714	+0.0072	+ 51 11 36.3	−8.625	+0.211	71.5	91 92	51 2084
4977	9.2	18 18.01	1.5978	0.0069	50 41 6.6	8.610	0.214	73.3	5 obs. [3]	50 2280
4978	9.1	18 29.40	1.5044	0.0080	52 23 13.4	8.595	0.202	71.5	87 88	52 1962
4979	8.6	18 56.22	1.3862	0.0094	54 21 22.2	8.560	0.186	74.5	312 313	54 1810
4980	9.0	19 0.92	1.6406	0.0065	49 48 47.4	8.553	0.220	78.2	555 660 661	49 2498
4981	8.9	16 19 4.20	+1.6371	+0.0065	+ 49 52 48.1	−8.549	+0.220	78.5	5 obs. [4]	49 2499
4982	9.7	19 4.88	1.5643	0.0073	51 16 12.4	8.548	0.210	72.2	92 181 182	51 2086
4983	8.5	19 9.24	1.3566	0.0098	54 48 51.2	8.542	0.183	74.5	314 315 316	54 1811
4984	8.7	19 31.14	1.4163	0.0090	53 49 59.6	8.513	0.191	76.3	6 obs. [5]	53 1863
4985	8.7	19 34.78	1.5746	0.0072	51 2 56.8	8.509	0.212	71.5	93 95	51 2088
4986	9.2	16 19 38.60	+1.4190	+0.0089	+ 53 46 50.8	−8.504	+0.191	84.5	809 810	— —
4987	9.4	19 43.05	1.5710	0.0072	51 6 32.6	8.498	0.211	71.5	86 94	[51 2089]
4988	7.4	19 46.44	1.5960	0.0069	50 38 5.4	8.493	0.214	71.5	84 85	50 2282
4989	9.0	19 49.52	1.5748	0.0072	51 1 54.0	8.489	0.212	71.5	87 96	[51 2091]
4990	9.1	20 26.33	1.5377	0.0075	51 40 50.8	8.440	0.207	72.5	6 obs. [6]	51 2094
4991	7.9	16 20 37.34	+1.6010	+0.0069	+ 50 29 23.4	−8.426	+0.215	73.3	5 obs. [7]	50 2285
4992	9.2	21 15.03	1.5670	0.0072	51 5 48.6	8.376	0.211	71.5	91 92	51 2096
4993	6.8	21 20.23	1.4846	0.0081	52 34 30.7	8.369	0.200	82.3	5 obs. [8]	52 1964
4994	8.0	21 41.56	1.5849	0.0070	50 44 10.6	8.341	0.214	72.5	181 182	50 2287
4995	7.2	21 50.33	1.5156	0.0077	52 0 2.4	8.329	0.205	72.0	86 96 183 184	52 1965
4996	8.5	16 22 5.76	+1.4333	+0.0086	+ 53 24 33.6	−8.309	+0.194	71.5	93 95	53 1865
4997	7.2	22 18.86	1.5461	0.0073	51 25 20.4	8.291	0.209	71.5	84 85 91 92	51 2097
4998	8.2	22 25.40	1.5913	0.0069	50 34 27.4	8.283	0.215	76.2	246 555 556	50 2288
4999	9.3	22 34.67	1.6220	0.0066	49 58 30.3	8.270	0.219	72.5	183 184	50 2289
5000	9.2	23 0.31	1.4788	0.0081	52 34 59.9	8.236	0.200	71.5	86 87	52 1967

[1] Z. 181 182 183 184 870α
[2] Z. 88 185 186 809 810
[3] Z. 84 85 314 315 316
[4] Z. 662 663 664 665 666
[5] Z. 88 178 179 180 809 810
[6] Z. 86 87 91 92 312 313
[7] Z. 84 85 314 315 316
[8] Z. 88 809 810 870 871

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5001	9.3	$16^h\,23^m\,6^s.24$	+1ˢ.5678	+0ˢ.0071	+ 50°58′38″.2	−8″.228	+0″.212	71.5	91 92	51°2101
5002	9.2	23 13.84	1.5288	0.0075	51 41 10.7	8.218	0.207	72.5	181 182	51 2102
5003	8.6	23 51.43	1.6052	0.0067	50 13 44.8	8.168	0.217	72.5	179 180	50 2293
5004	9.4	24 40.81	1.5364	0.0074	51 28 9.4	8.102	0.208	78.0	86 88 809 810	51 2104
5005	9.0	24 48.34	1.3559	0.0094	54 31 19.8	8.092	0.184	78.2 74.6	6 obs. [1]	54 1813
5006	7.2	16 24 51.81	+1.5138	+0.0076	+ 51 52 4.2	−8.088	+0.206	71.5	91 92	51 2105
5007	8.6	24 57.07	1.3374	0.0096	54 48 16.1	8.081	0.182	74 6	312 313 317 318	54 1814
5008	9.7	24 58.67	1.6169	0.0066	49 56 33.2	8.079	0.219	80.9 79.8	5 obs. [2]	49 2508
5009	9.0	25 3.75[3]	1.3580	0.0094	54 28 32.1	8.072	0.185	84.8	811 812 873	54 1815
5010	9.1	25 29.79	1.5633	0.0071	50 55 56.6	8.037	0.212	71.5	93 95	50 2295
5011	5.8	16 25 32.16	+1.5222	+0.0075	+ 51 40 55.0	−8.034	+0.207	71.5	86 88	51 2106
5012	7.9	25 34.75	1.5028	0.0077	52 1 30.5	8.030	0.204	72.2	94 181 182	52 1968
5013	8.0	25 51.49	1.5564	0.0071	51 2 23.8	8.008	0.212	73.7	7 obs. [4]	51 2107
5014	9.4	27 32.81	1.5135	0.0075	51 43 53.4	7.872	0.206	72.5	6 obs. [5]	51 2110
5015	8.2	28 4.75	1.5301	0.0073	51 24 21.4	7.830	0.209	71.5	93 95	51 2112
5016	9.8	16 28 50.78	+1.6022	+0.0066	+ 50 1 16.8	−7.768	+0.219	72.0	97 179	[50 2302]
5017	9.7	28 52.65	1.6015	0.0066	50 2 0.0	7.765	0.219	74.5	313	50 2303
5018	8.5	28 57.57	1.4209	0.0084	53 15 20.9	7.758	0.194	82.3	5 obs. [6]	53 1871
5019	8.8	29 14.66	1.5785	0.0068	50 27 1.3	7.735	0.216	75.3	185 247 555 556	50 2304
5020	9.2	29 20.90	1.4776	0.0078	52 16 20.5	7.727	0.202	80.9	7 obs. [7]	52 1972
5021	9.4	16 29 27.25	+1.4745	+0.0078	+ 52 19 16.1	−7.718	+0.202	81.2 79.0	184 870 872α	52 1973
5022	7.3	29 39.22	1.5798	0.0068	50 24 20.5	7.702	0.216	72.9 72.5	181 182 248α	50 2305
5023	8.6	29 39.96	1.3352	0.0094	54 35 59.4	7.701	0.183	71.5	93 95	54 1817
5024	8.8	29 47.16	1.3150	0.0096	54 54 27.0	7.692	0.180	74.5	312 313	54 1818
5025	9.0	30 40.69	1.5024	0.0075	51 46 10.4	7.620	0.205	71.5	91 92	51 2114
5026	6.6	16 30 56.11	+1.4600	+0.0079	+ 52 29 50.5	−7.599	+0.200	72.5	183 184	52 1976
5027	7.9	30 56.89	1.5318	0.0072	51 13 43.2	7.598	0.210	71.5	93 95	51 2115
5028	8.6	31 2.67	1.4180	0.0083	53 12 3.6	7.590	0.195	71.5	88 90	53 1872
5029	8.5	31 4.51	1.3567	0.0090	54 11 37.0	7.587	0.187	77.1	5 obs. [8]	54 1819
5030	8.9	31 7.49	1.3047	0.0096	54 59 59.6	7.583	0.179	74.5	312 313	55 1853
5031	9.1	16 31 30.01	+1.5598	+0.0069	+ 50 41 9 6	−7.553	+0.214	72.0	5 obs. [9]	50 2308
5032	8.9	31 40.96	1.3537	0.0090	54 12 44.4	7.538	0.186	84.5	814 815	54 1821
5033	9.0	31 41.44	1.4444	0.0080	52 43 36.6	7.538	0.198	76.6	317 555 556	52 1978
5034	9.0	31 52.96	1.5340	0.0071	51 8 32.2	7.522	0.211	71.5	91 92	51 2117
5035	8.8	31 57.06	1.4850	0.0076	52 0 45.4	7.516	0.204	72 5	183 184	52 1979
5036	9.0	16 32 11.38	+1.3171	+0.0094	+ 54 45 33.4	−7.497	+0.181	73.0	93 95 312 313	54 1822
5037	9.0	32 13.58	1.5816	0.0067	50 14 29 6	7.494	0.217	72.5	179 180	50 2310
5038	9.3	32 18.32	1.5117	0.0073	51 31 27.9	7.488	0.208	78.0	88 90 811 812	51 2118
5039	8.8	32 24.18	1.4528	0.0079	52 32 53.8	7.480	0.200	72.6	185 186	52 1982
5040	6.8	33 16.74	1.4130	0.0083	53 10 33.6	7.409	0.195	71.5	88 90 93 95	53 1875
5041	7.7	16 33 17.30	+1.4130	+0.0083	+ 53 10 31.7	−7.408	+0.195	71.5	88 90 93 95	53 1876
5042	7.8	33 43.62	1.4515	0.0078	52 30 23.6	7.372	0.200	72.5	183 184	52 1983
5043	8.3	34 9.20	1.5030	0.0073	51 35 18.9	7.337	0.207	71.5	91 92	51 2122
5044	8.9	34 14.81	1.3044	0.0094	54 51 24.8	7.330	0.180	73.5	93 247 312 313	54 1823
5045	9.0	35 17.24	1.3509	0.0088	54 5 9.8	7.245	0.187	74.2	247 312 313	54 1826
5046	9.0	16 35 36.09	+1.5753	+0.0066	+ 50 11 53.1	−7.219	+0.218	71.6	93 97 98	50 2314
5047	9.5	35 49.63	1.5888	0.0065	49 55 50.6	7.201	0.219	77.6	555 556	49 2532
5048	6.8	35 50.80	1.5272	0.0070	51 4 25.9	7.199	0.211	71.5	91 92	51 2125
5049	8.9	35 54.35	1.5143	0.0071	51 18 14.2	7.194	0.209	72.5	181 182	51 2126
5050	9.3	36 49.59	1.5311	0.0069	50 57 31.2	7.119	0 212	79.5	7 obs. [10]	50 2315

[1] Z. 93 95 555 556 872α 873α
[2] Z. 315 316 810 870α 871
[3] 3ˢ.68 3ˢ.52 4ˢ.05
[4] Z. 91 92 312 313 314 315 316
[5] Z. 87 88 91 92 312 313
[6] Z. 88 811 812 870 871
[7] Z. 92 94 811 813 814 815 872
[8] Z. 94 96 247 811 812
[9] Z. 93 97 98 185 186
[10] Z. 93 179 180 811 812 870 871

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5051	8.3	$16^h\ 36^m\ 57^s.95$	$+1^s.3110$	$+0^s.0091$	$+\ 54°\ 37'\ 59''.1$	$-7''.108$	$+0''.182$	72.5	91 92 313	54° 1827
5052	9.6	37 45.37	1.5514	0.0067	50 32 31.1	7.043	0.215	72.0	93 97 181 182	50 2317
5053	8.6	38 30.58	1.3041	0.0086	54 40 13.0	6.981	0.181	71.5	91 92	54 1828
5054	8.9	38 49.68	1.3157	0.0090	54 28 37.0	6.955	0.183	71.5	94 96	54 1829
5055	8.1	38 50.07	1.3893	0.0082	53 18 33.8	6.955	0.193	72.9	93 247 248	53 1883
5056	9.2	16 39 0.94	+1.4507	+0.0076	+ 52 16 36.9	−6.940	+0.201	72.5	183 184	52 1990
5057	9.6	39 7.99	1.4980	0.0071	51 26 49.6	6.930	0.208	72.5	181 182	51 2128
5058	6.3	39 9.68	1.5677	0.0065	50 10 33.4	6.928	0.218	72.5	179 180	50 2319
5059	8.8	39 27.79	1.3536	0.0085	53 51 26.4	6.903	0.188	73.6	247 248	53 1885
5060	8.2	39 42.40	1.4000	0.0080	53 5 48.2	6.883	0.195	72.6	187 188	53 1886
5061	8.9	16 39 44.27	+1.2985	+0.0085	+ 54 42 6.3	−6.880	+0.181	71.5	91 92	54 1830
5062	8.7	39 48.58	1.5857	0.0064	49 48 27.1	6.875	0.220	83.5	5 obs. [1]	49 2540
5063	8.7	39 49.48	1.3550	0.0085	53 49 6.2	6.873	0.188	81.8	88 814 874 876	53 1887
5064	8.5	40 31.23	1.5252	0.0068	50 53 52.4	6.816	0.212	71.6	93 97 98	50 2322
5065	8.4	40 39.56	1.4193	0.0078	52 44 5.2	6.805	0.197	72.5	183 184	52 1993
5066	7.8	16 40 40.77	+1.4756	+0.0072	+ 51 46 22.0	−6.803	+0.205	71.6	99 100	51 2130
5067	9.4	40 50.60	1.5277	0.0068	50 50 15.7	6.790	0.212	72.5	181 182	50 2324
5068	7.8	40 57.62	1.4530	0.0074	52 9 5.1	6.780	0.202	72.6	187 188	52 1994
5069	6.6	41 18.10	1.5669	0.0064	50 5 40.2	6.752	0.218	72.5	179 180	50 2326
5070	9.7	41 30.72	1.4981	0.0070	51 20 23.3	6.734	0.209	72.6	185 186	51 2131
5071	8.5	16 41 44.30	+1.5143	+0.0068	+ 51 2 25.6	−6.716	+0.211	72.5	183 184	51 2132
5072	8.7	41 53.44	1.4801	0.0072	51 38 26.1	6.703	0.206	74.5	314 315 316	51 2133
5073	8.6	42 12.69	1.3094	0.0088	54 25 49.1	6.677	0.183	71.5	91 92 94 96	54 1832
5074	9.0	42 56.22	1.5382	0.0066	50 33 19.7	6.617	0.214	73.0	6 obs. [2]	50 2330
5075	9.3	42 58.41	1.3462	0.0084	53 49 29.4	6.614	0.188	71.5	88 90	53 1891
5076	9.6	16 43 7.96	+1.5154	+0.0068	+ 50 57 38.4	−6.601	+0.212	72.2	99 179 180	50 2331
5077	8.5	43 8.56	1.3952	0.0079	53 1 42.4	6.600	0.195	77.2 75.6	6 obs. [3]	53 1893
5078	8.5	43 10.45	1.3984	0.0078	52 58 25.7	6.597	0.195	84.9 84.8	5 obs. [4]	53 1894
5079	9.0	43 17.18	1.3907	0.0079	53 5 42.4	6.588	0.194	84.8	811 812 871	[53 1895]
5080	8.4	43 52.39	1.2927	0.0089	54 36 59.6	6.539	0.181	71.5	91 92	54 1834
5081	8.6	16 44 56.73	+1.5345	+0.0066	+ 50 32 19.2	−6.451	+0.215	73.0	6 obs. [5]	50 2332
5082	8.6	45 0.05	1.5505	0.0064	50 14 27.6	6.446	0.217	71.5	94 96	50 2333
5083	9.0	45 13.20	1.3032	0.0086	54 24 7.6	6.428	0.183	71.5	91 92	54 1837
5084	9.0	45 28.67	1.5129	0.0067	50 54 29.0	6.407	0.212	72.0	99 100 179 180	50 2335
5085	8.2	46 18.89	1.3106	0.0085	54 14 39.4	6.337	0.184	73.0	91 92 317 318	54 1838
5086	6.9	16 46 30.58	+1.3804	+0.0078	+ 53 7 56.2	−6.321	+0.194	72.9	93 247 248	53 1897
5087	8.7	46 33.80	1.3479	0.0081	53 39 6 8	6.316	0.189	71.5	88 90	53 1898
5088	9.4	46 38.99	1.4114	0.0075	52 36 59 1	6.309	0.198	72.6	187 188	52 1998
5089	8.9	46 39.03	1.3962	0.0076	52 52 3.3	6.309	0.196	73.7	5 obs. [6]	52 1997
5090	9.1	47 20.04	1.4245	0.0074	52 22 9.7	6.252	0.200	78.0	93 97 811 812	52 2001
5091	8.7	16 47 38.75	+1.4227	+0.0073	+ 52 23 17.0	−6.227	+0.200	73.4 73.8	6 obs. [7]	52 2002
5092	7.9	47 49.65	1.4832	0.0068	51 20 25.8	6.211	0.208	73.6	99 317 318	51 2141
5093	7.5	48 15.51	1.5025	0.0066	50 58 54.2	6.176	0.211	81.6	6 obs. [8]	51 2142
5094	9.1	48 32.75	1.3212	0.0082	53 59 38.5	6.152	0.186	71.5	91 92	54 1841
5095	9.3	48 36.47	1.3088	0.0083	54 11 3.2	6.146	0.184	71.5	93 95	54 1842
5096	8.4	16 48 43.85	+1.3047	+0.0084	+ 54 14 31.5	−6.136	+0.184	72.9	96 247 248	54 1843
5097	7.4	49 10.96	1.2842	0.0085	54 32 16.0	6.099	0.181	71.5	91 92	54 1844
5098	8.7	49 35.31	1.5506	0.0062	50 3 17.0	6.065	0.218	71.6	93 97 98	50 2340
5099	8.4	49 37.33	1.3727	0.0077	53 8 8.4	6.062	0.193	72.6	187 188	53 1902
5100	7.9	49 53.17	1.2659	0.0087	54 47 10.7	6.040	0.179	73.3	5 obs. [9]	54 1846

[1] Z. 555 814 815 870 871 [2] Z. 93 97 98 314 315 316 [3] Z. 187 188 247 248 870α 874
[4] Z. 811 813 814 870 874α [5] Z. 93 97 98 314 315 316 [6] Z. 183 184 314 315 316
[7] Z. 98α 187 188 314 315 316 [8] Z. 666 667 668 813 814 815 [9] Z. 91 92 314 315 316

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5101	9.5	16h 50m 10s.79	+1s.2570	+0s.0087	+ 54° 54′ 31″.4	−6″.015	+0″.178	71.5	94 96	— —
5102	9.0	50 10.99	1.4777	0.0068	51 20 40.9	6.015	0.208	78.4	5 obs. [1]	51° 2144
5103	8.9	50 13.38	1.2539	0.0088	54 57 6.6	6.012	0.177	73.6	247 248	54 1847
5104	8.6	50 26.22	1.2984	0.0083	54 16 29.0	5.994	0.183	71.5	93 95	54 1848
5105	9.2	50 41.50	1.3593	0.0077	53 18 38.6	5.973	0.192	71.5	88 90	53 1904
5106	8.2	16 50 52.74	+1.4825	+0.0067	+ 51 14 6.4	−5.957	+0.209	71.6	99 100	51 2145
5107	9.3	51 3.14	1.5134	0.0064	50 40 42.6	5.943	0.213	73.7	5 obs. [2]	50 2344
5108	9.0	51 13.36	1.3654	0.0076	53 11 34.2	5.928	0.193	71.5	91 92	[53 1905]
*5109	8.8	51 17.72	1.4640	0.0068	51 32 29.2	5.922	0.206	71.6	97 98	51 2146
5110	8.8	51 43.28	1.3656	0.0076	53 10 17.6	5.887	0.193	71.5	88 90	53 1906
5111	7.9	16 51 56.68	+1.4263	+0.0070	+ 52 9 48.3	−5.868	+0.201	72.0	93 95 183 184	52 2008
5112	8.8	52 33.80	1.2700	0.0084	54 37 38.3	5.816	0.180	72.0	91 92 187 188	54 1849
5113	6.8	52 54.57	1.5339	0.0062	50 14 7.2	5.787	0.217	73.2	6 obs. [3]	50 2345
5114	8.9	52 55.89	1.4740	0.0066	51 18 22.6	5.785	0.208	75.3	99 181 182 812	51 2154
5115	9.4	53 6.48	1.5287	0.0062	50 19 22.3	5.770	0.216	84.5	814 815	50 2346
5116	8.4	16 53 7.56	+1.2632	+0.0084	+ 54 42 35.6	−5.769	+0.179	71.5	94 96	54 1850
5117	8.8	53 16.56	1.4405	0.0069	51 52 23.9	5.756	0.204	71.6	97 98	51 2155
5118	8.7	53 18.29	1.5359	0.0062	50 11 3.6	5.754	0.217	80.5	179 814 815	50 2347
5119	6.8	53 25.31	1.3789	0.0074	52 53 37.6	5.744	0.195	72.6	185 186	52 2009
5120	8.9	53 27.36	1.4536	0.0067	51 38 33.8	5.741	0.206	80.5	181 812 819	51 2156
5121	8.8	16 53 32.29	+1.4536	+0.0068	+ 51 38 24.2	−5.734	+0.206	78.5	181 182 812 819	51 2156
5122	9.2	54 5.68	1.4785	0.0065	51 11 6.0	5.688	0.209	71.5	93, 95	51 2157
5123	7.9	54 11.58	1.4257	0.0069	52 5 29.0	5.680	0.202	72.6	187 188	52 2012
5124	9.3	54 22.20	1.5517	0.0060	49 51 16.6	5.665	0.220	78.5	662 663	49 2570
5125	9.4	54 42.88	1.5383	0.0061	50 5 18.7	5.636	0.218	73.1	7 obs. [4]	50 2350
5126	9.0	16 54 45.38	+1.3579	+0.0075	+ 53 11 8.3[5]	−5.632	+0.192	72.6 72.9	91α 92 247 248	53 1909
5127	7.8	55 4.76	1.4935	0.0064	50 53 9.6	5.605	0.212	71.6	97 98	50 2352
5128	8.8	55 6.81	1.4300	0.0068	51 59 6.3	5.602	0.203	72.6	185 186	52 2014
5129	9.4	55 25.62	1.5214	0.0062	50 22 21.2	5.576	0.216	73.0	6 obs. [6]	50 2353
5130	8.0	56 2.66	1.3975	0.0070	52 29 50.6	5.524	0.198	73.1	189 190 247 248	52 2016
5131	8.6	16 56 18.28	+1.2419	+0.0085	+ 54 54 54.2	−5.502	+0.177	71.5	91 92	54 1852
5132	7.2	57 14.30	1.3500	0.0074	53 13 39.3	5.424	0.192	73.1	7 obs. [7]	53 1910
5133	7.6	58 22.10	1.3751	0.0071	52 47 4.4	5.328	0.196	71.5	93 95	52 2018
5134	9.0	58 28.16	1.3247	0.0075	53 35 7.4	5.320	0.188	76.5	7 obs. [8]	53 1911
5135	8.6	58 31.80	1.3061	0.0076	53 52 24.4	5.314	0.186	73.6	247 248	53 1912
5136	7.9	16 59 7.62	+1.5080	+0.0061	+ 50 29 10.0	−5.264	+0.214	71.5	93 95	50 2358
5137	7.6	59 7.72	1.2452	0.0081	54 46 27.2	5.264	0.178	71.5	94 96	54 1856
5138	7.7	59 11.28	1.4136	0.0067	52 7 21.7	5.259	0.201	74.5	314 315 316	52 2019
5139	9.2	59 16.04	1.3379	0.0073	53 21 8.3	5.252	0.190	71.5	91 92	53 1913
5140	9.6	59 32.62	1.5198	0.0060	50 15 32.7	5.229	0.216	71.6	97 98	50 2359
5141	7.5	16 59 35.50	+1.4715	+0.0063	+ 51 7 10.2	−5.225	+0.209	71.6	99 100	51 2161
5142	9.1	59 59.64	1.2217	0.0082	55 5 30.2	5.191	0.174	77.6	557 558	— —
5143	8.2	17 0 8.66	1.2220	0.0082	55 4 54.1	5.178	0.174	77.6	555 556 557	55 1900
5144	8.8	0 43.45	1.4520	0.0064	51 25 10.5	5.129	0.207	71.5	93 95	51 2164
5145	8.0	1 9.00	1.3309	0.0072	53 24 11.3	5.093	0.190	79.0 80.9	247 248α 814 815	53 1915
5146	8.8	17 1 10.14	+1.3323	+0.0072	+ 53 22 50.5	−5.092	+0.190	77.2 84.5	247α 248α 814	53 1915
5147	9.0	1 27.46	1.5354	0.0058	49 54 41.9	5.067	0.219	77.6	555 556 557 558	49 2582
5148	8.0	1 35.78	1.3560	0.0070	52 59 21.9	5.055	0.194	75.6	417 418	53 1916
5149	8.2	1 35.86	1.3964	0.0067	52 19 52.4	5.055	0.199	73.0	93 95 315 316	52 2022
5150	8.9	1 56.04	1.5386	0.0057	49 50 14.5	5.027	0.219	85.6	871 874	49 2584

[1] Z. 556 663 666 667 668
[2] Z. 179 180 314 315 316
[3] Z. 93 95 180 314 315 316
[4] Z. 93 99 179 180 314 315 316
[5] [4″.6] 7″.5 9″.1 8″.4
[6] Z. 93 94 96 314 315 316
[7] Z. 91 92 181 182 314 315 316
[8] Z. 91 92 314 315 316 814 815

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5151	8.8	17h 2m12s.35	+1s.3348	+0s.0071	+ 53°18′31″.9	−5″.004	+0″.191	80.8	247 814 815	53° 1917
5152	8.5	2 26.56	1.3929	0.0067	52 21 46.8	4.984	0.199	72.6	189 190	52 2024
5153	8.6	2 29.78	1.3831	0.0067	52 31 20.6	4.979	0.198	72.6	187 188	52 2025
5154	7.2	2 44.84	1.2470	0.0078	54 38 5.0	4.958	0.178	71.5	94 96	} 54 1857
5155	7.2	2 44.84	1.2470	0.0078	54 38 8.5	4.958	0.178	71.5	94 96	
5156	9.6	17 2 46.51	+1.4411	+0.0063	+ 51 32 34.5	−4.956	+0.206	73.4	98 99 317 318	51 2167
5157	8.2	3 2.02	1.4016	0.0066	52 12 2.3	4.934	0.200	73.9	180 315 316	52 2026
5158	8.4	3 3.04	1.5022	0.0059	50 27 51.8	4.932	0.214	71.5	93 95	50 2364
5159	8.2	3 4.64	1.2941	0.0074	53 54 54.2	4.930	0.185	75.6	417 418	53 1918
5160	8.8	3 6.32	1.2556	0.0077	54 29 48.4	4.928	0.180	74.6	321 322	54 1858
5161	9.5	17 3 12.39	+1.3299	+0.0071	+ 53 21 15.6	−4.919	+0.190	84.6	248 818 819	53 1919
5162	9.1	3 13.73	1.4352	0.0063	51 37 47.4	4.917	0.205	84.6	814 815 818 819	51 2171
5163	8.8	3 13.76	1.4676	0.0061	51 4 12.4	4.917	0.210	74.6	319 320	51 2169
5164	9.3	3 32.72	1.4354	0.0063	51 37	4.890	0.205	84.5	814α	51 2172
5165	8.8	3 36.46	1.4290	0.0063	51 43 20.7	4.885	0.204	79.0 76.9	185 186 871α 873	51 2173
5166	9.1	17 3 58.24	+1.4672	+0.0060	+ 51 3 20.5	−4.854	+0.210	77.9	93 316 318 814 815	51 2174
5167	9.0	4 32.28	1.3593	0.0068	52 50 46.0	4.806	0.195	84.6	818 819	52 2027
5168	8.5	5 6.34	1.3809	0.0066	52 28 44.9	4.758	0.198	73.5	7 obs. [1]	52 2028
5169	6.9	5 13.23	1.4681	0.0060	51 0 6.1	4.748	0.210	73.4	6 obs. [2]	51 2178
5170	8.9	5 30.90	1.5283	0.0056	49 55 1.2	4.723	0.219	77.6	555 556	49 2588
5171	9.2	17 5 31.73	+1.2569	+0.0075	+ 54 24 23.6	−4.722	+0.180	71.5	94 96	— —
5172	8.6	5 39.00	1.4761	0.0059	50 50 56.3	4.711	0.211	71.5	93 95	50 2368
5173	8.1	5 55.67	1.2553	0.0074	54 25 8.2	4.688	0.180	79.0	96 419 814 816	54 1860
5174	9.4	6 1.90	1.3600	0.0066	52 47 30.1	4.679	0.195	72.6	185 189 190	52 2029
5175	9.2	6 25.12	1.3530	0.0067	52 53 36.6	4.646	0.194	73.8	8 obs. [3]	52 2030
5176	8.3	17 6 31.28	+1.5295	+0.0055	+ 49 51 56.9	−4.637	+0.219	77.6	557 558	49 2590
5177	9.4	6 38.89	1.3306	0.0068	53 14 34.8	4.626	0.191	74.9	315 316 418	53 1922
5178	9.2	7 3.86	1.2089	0.0077	55 4 7.0	4.591	0.174	78.0	559 662	55 1914
5179	9.7	7 11.21	1.5181	0.0056	50 3 12.9	4.580	0.218	71.6	93 97 98	50 2370
5180	9.2	7 11.92	1.5250	0.0055	49 55 43.7	4.580	0.218	78.6	663 666	49 2597
5181	8.9	17 7 15.48	+1.4428	+0.0060	+ 51 22 47.5	−4.574	+0.207	73.6	99 317 318	51 2182
5182	8.6	7 34.30	1.2364	0.0074	54 39 8.3	4.548	0.178	77.4	9 obs. [4]	54 1861
5183	8.8	7 36.06	1.2367	0.0074	54 38 52.1	4.545	0.178	77.4	9 obs. [5]	54 1862
5184	9.0	7 38.57	1.2664	0.0072	54 12 12.7	4.542	0.182	77.1	6 obs. [6]	54 1863
5185	6.5	7 38.99	1.3713	0.0064	52 33 45.0	4.541	0.197	76.6	6 obs. [7]	52 2032
5186	9.2	17 7 47.70	+1.2660	+0.0072	+ 54 12 23.7	−4.529	+0.182	78.3	94 667 668 818	54 1864
5187	8.5	7 54.17	1.4365	0.0060	51 28 12.2	4.520	0.206	75.6	6 obs. [8]	51 2186
5188	9.2	7 54.94	1.4290	0.0061	51 35 48.1	4.518	0.205	74.6	315 316	51 2185
5189	6.8	8 20.82	1.4100	0.0061	51 54 19.5	4.482	0.202	74.6	317 318 319 320	51 2187
5190	8.9	8 22.34	1.5278	0.0054	49 50 36.9	4.480	0.219	78.3	559 664 666	49 2602
5191	9.2	17 8 26.08[9]	+1.3970	+0.0062	+ 52 7 8.4	−4.474	+0.200	78.6 81.8	188 818δ 819 873δ	52 2033
5192	6.8	8 29.05	1.5247	0.0054	49 53 46.4	4.470	0.219	79.6	6 obs. [10]	49 2604
5193	9.1	8 32.47	1.4321	0.0060	51 31 36.8	4.465	0.206	77.9	93 315 316 814 816	51 2188
5194	8.9	9 11.63	1.3917	0.0062	52 11 8.3	4.409	0.200	73.2	6 obs. [11]	52 2034
5195	9.2	10 6.70	1.4008	0.0061	52 0 35.5	4.331	0.201	72.6	185 188 189	[52 2035]
5196	9.1	17 10 15.70	+1.5228	+0.0054	+ 49 52 57.7	−4.318	+0.219	76.9	419 557 558	49 2609
5197	8.6	10 20.89	1.2574	0.0070	54 15 59.7	4.311	0.181	76.8 75.4	7 obs. [12]	54 1868
5198	7.1	10 28.79	1.2561	0.0070	54 16 57.2	4.300	0.181	82.6	6 obs. [13]	54 1869
5199	9.1	10 43.05	1.3970	0.0061	52 3 28.6	4.279	0.201	72.2	93 186 190	52 2036
5200	8.4	10 46.29	1.3732	0.0062	52 26 47.3	4.275	0.198	77.2	6 obs. [14]	52 2037

[1] Z. 99 100 188 319 320 321 322 [2] Z. 97 98 101 318 417 418 [3] Z. 186 188 247 248 319 320 321 322
[4] Z. 247 248 319 320 419 557 558 814 816 [5] Z. 247 248 319 320 419 557 558 814 816
[6] Z. 94 321 322 667 668 818 [7] Z. 185 186 189 190 818 819 [8] Z. 93 100 418 559 663 669
[9] 25s.93 [25s.76] 26s.22 [26s.64] [10] Z. 419 557 558 560 814 816 [11] Z. 93 185 186 247 248 418
[12] Z. 94 96 315 316 418 819 875α [13] Z. 96 814 816 818 819 875 [14] Z. 247 248 249 250 814 846

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5201	9.0	17h 11m 17s.19	+1s.3534	+0s.0063	+ 52° 45′ 15″.0	−4″.231	+0″.195	74.3	250 317 318	52° 2039
5202	9.0	11 26.47	1.2492	0.0070	54 21 37.9	4.217	0.180	78.7	315 316 418 814 816	54 1870
5203	8.8	11 33.37	1.5046	0.0054	50 10 39.2	4.208	0.216	71.6	93 97 98 101 102	50 2376
5204	9.2	11 36.93	1.4870	0.0055	50 29 19.8	4.202	0.214	73.8	99 320 321 322	50 2377
5205	9.4	11 52.94	1.2744	0.0068	53 58 17.9	4.180	0.184	74.1	188 419	53 1926
5206	8.6	17 12 6.54	+1.2883	+0.0067	+ 53 45 15.0	−4.160	+0.186	73.6	247 248	53 1927
5207	9.1	12 45.04	1.2852	0.0066	53 47 5.3	4.105	0.185	72.2	93 189 190	53 1929
5208	7.8	13 2.37	1.4002	0.0059	51 56 35.9	4.080	0.202	73.6	6 obs. [1]	51 2196
5209	9.4	13 9.62	1.4625	0.0055	50 52 50.4	4.070	0.211	71.6	101 102	50 2380
5210	8.1	13 35.30	1.4700	0.0055	50 44 16.5	4.034	0.212	71.6	93 97 98 99	50 2382
5211	7.3	17 13 37.81	+1.5210	+0.0052	+ 49 49 33.7	−4.030	+0.218	76.9	419 557 558	49 2614
5212	7.2	13 48.31	1.3390	0.0062	52 55 13.3	4.015	0.193	73.6	6 obs. [2]	52 2043
5213	8.9	13 53.75	1.2235	0.0070	54 40 45.4	4.007	0.177	78.0	94 96 814 816	54 1871
5214	8.4	14 10.62	1.2999	0.0064	53 31 26.7	3.983	0.188	72.0	93 188	53 1931
5215	9.0	14 43.74	1.3358	0.0062	52 56 57.6	3.936	0.193	79.0	247 248 814 816	52 2044
5216	9.1	17 14 59.68	+1.4695	+0.0054	+ 50 42 43.6	−3.913	+0.212	71.6	101 102	50 2385
5217	8.0	15 0.01	1.3581	0.0060	52 35 7.7	3.912	0.196	73.8	189 190 319 320 322	52 2045
5218	8.9	15 5.85	1.5097	0.0052	49 59 38.7	3.904	0.218	73.6	99 317 318	50 2386
5219	8.0	15 10.77	1.3650	0.0060	52 28 10.5	3.897	0.197	74.6	315 316	52 2046
5220	8.8	15 36.18	1.2820	0.0064	53 45 52.2	3.861	0.185	73.6	247 248	53 1932
5221	8.4	17 15 39.85	+1.4500	+0 0054	+ 51 2 4.7	−3.855	+0.209	73.2	185 249 250	51 2199
5222	9.3	15 47.82	1.3186	0.0062	53 11 42.1	3.844	0.190	80.5	188 814 816	53 1933
5223	8.8	15 51.56	1.2731	0.0065	53 53 40.5	3.839	0.184	72.6	189 190	53 1934
5224	8.6	15 55.68	1.2902	0.0064	53 37 55.4	3.833	0.186	73.8	93 319 320 322	53 1935
5225	7.8	16 59.24	1.3906	0.0057	52 0 28.4	3.742	0.201	73.6	6 obs. [3]	52 2047
5226	9.0	17 17 2.30	+1.4652	+0.0053	+ 50 44 23.4	−3.737	+0.212	71.6	93 97 98 101 102	50 2388
5227	7.9	17 13.90	1.4028	0.0056	51 48 1.6	3.721	0.203	72.9	99 249 250	51 2201
5228	8.9	17 21.20	1.3768	0.0057	52 13 33.9	3.710	0.199	80.2	188 190 816 873 874	52 2048
5229	9.6	17 32.50	1.4112	0.0055	51 39 7.2	3.694	0.204	74.6	317 318	51 2202
5230	8.7	17 52.36	1.4947	0.0051	50 11 57.4	3.666	0.216	75.9	6 obs. [4]	50 2390
5231	9.1	17 18 0.89	+1.3742	+0.0057	+ 52 15 14.1	−3.653	+0.199	73.3	189 247 248	52 2049
5232	8.5	18 11.83	1.4503	0.0053	50 58 14.8	3.638	0.210	77.9	93 319 320 814 816	50 2391
5233	8.6	18 12.57	1.5117	0.0050	49 53 6.9	3.637	0.218	74.6	321 322	49 2623
5234	9.3	18 22.94	1.5027	0.0050	50 2 36.1	3.622	0.217	75.3	317 417 418	50 2392
5235	8.4	18 42.75	1.1896	0.0067	55 3 38.8	3.593	0.172	77.6	557 558	55 1933
5236	5.4	17 19 3.20	+3.2916	+0.0061	+ 53 32 23.8	−3.564	+0.187	72.6	189 190	53 1937
5237	9.2	19 6.49	1.4160	0.0054	51 32 10.4	3.559	0.205	73.1	101 102 321 322	51 2203
5238	9.0	19 22.54	1.4480	0.0052	50 59 6.1	3.536	0.209	73.1	99 100 317 318	51 2204
5239	8.8	19 24.02	1.2629	0.0062	53 58 9.8	3.534	0.183	73.6	247 248	53 1938
5240	9.6	19 27.22	1.2704	0.0062	53 51 20.0	3.530	0.184	73.6	249 250	53 1939
5241	9.2	17 19 33.39	+1.4752	+0.0051	+ 50 30 25.4	−3.521	+0.213	72.6	6 obs. [5]	50 2393
5242	8.6	20 17.06	1.4066	0.0054	51 40 8.7	3.458	0.204	73.6	6 obs. [6]	51 2206
5243	8.1	20 54.77	1.2940	0.0059	53 27 49.8	3.404	0.187	76.9	6 obs. [7]	53 1941
5244	7.2	21 22.06	1.4711	0.0050	50 32 22.2	3.364	0.213	71.6	101 102	50 2400
5245	8.7	21 22.66	1.2260	0.0063	54 28 37.6	3.364	0.178	71.5	94 96	54 1876
5246	9.7	17 21 27.25	+1.4884	+0.0049	+ 50 13 54.9	−3.357	+0.216	73.1	97 98 319 320	50 2401
5247	7.2	21 35.98	1.4559	0.0050	50 48 3.3	3.344	0.211	71.5	93 95	50 2402
5248	8.9	22 15.95	1.4335	0.0051	51 10 22.1	3.287	0.208	73.6	100 321 322	51 2208
5249	8.0	22 24.88	1.3066	0.0057	53 14 21.0	3.274	0.189	72.6	189 190	53 1945
5250	8.9	22 33.26	1.4077	0.0052	51 36 10.0	3.262	0.204	72.5	93 95 318	51 2210

[1] Z. 185 186 249 250 317 318 [2] Z. 189 190 247 248 319 320 [3] Z. 185 186 247 248 321 322
[4] Z. 94 96 101 102 818 819 [5] Z. 93 95 97 98 319 320 [6] Z. 93 95 317 318 321 322
[7] Z. 189 190 247 248 814 816

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5251	9.0	17h 22m 37s.18	+1s.5058	+0s.0048	+ 49° 53′ 49″.3	−3″.256	+0″.218	76.4	323 419 557 558	49° 2635
5252	6.4	22 38.91	1.3278	0.0056	52 54 4.2	3.254	0.192	73.1	101 102 319 320	52 2057
5253	9.2	23 0.74	1.2098	0.0061	54 40 52.6	3.222	0.175	73.6	247 248	54 1877
5254	8.1	24 11.00	1.3824	0.0052	51 59 29.3	3.121	0.200	73.6 74.1	99α 249 250 317 318	52 2058
5255	9.0	24 13.30	1.3763	0.0053	52 5 25.1	3.118	0.200	73.1	101 102 319 320	52 2059
5256	8.3	17 24 18.11	+1.5067	+0.0047	+ 49 50 54.5	−3.111	+0.218	74.9	321 322 419	49 2641
5257	8.6	24 47.58	1.4593	0.0048	50 40 42.0	3.069	0.212	72.3	93 97 98 323	50 2409
5258	8.6	25 8.68	1.3736	0.0052	52 7 6.2	3.038	0.199	73.6	189 190 319 320	52 2061
5259	8.5	25 18.99	1.2225	0.0059	54 27 11.4	3.023	0.178	72.6	94 96 249 250	54 1881
5260	8.6	25 24.52	1.4822	0.0047	50 15 52.6	3.015	0.215	84.6	816 818	50 2410
5261	7.4	17 25 38.96	+1.4126	+0.0050	+ 51 27 43.4	−2.995	+0.205	71.5	93 95	51 2218
5262	9.0	25 53.23	1.4755	0.0047	50 22 28.3	2.974	0.214	71.6	101	50 2411
5263	8.6	25 57.54	1.4413	0 0048	50 58 6.0	2.968	0.209	74.6	317 318	} 50 2412
5264	8.6	25 57.84	1.4413	0.0048	50 58 6.8	2.967	0.209	74.6	317 318	
5265	7.4	26 0.59	1.4860	0.0047	50 11 9.3	2.963	0.216	79.6	321 322 818 819	50 2413
5266	9.6	17 26 4.54	+1.2963	+0.0054	+ 53 19 44.4	−2.958	+0.188	74.1	249 323	53 1947
5267	7.8	26 6.43	1.4041	0.0050	51 35 45.4	2.955	0.204	71.6	99 100	51 2219
5268	8.9	26 27.36	1.4752	0.0047	50 22 11.0	2.925	0.214	84.5	814 816	50 2415
5269	9.4	26 33.68	1.3680	0.0051	52 11 2.1	2.916	0.199	72.6	189 190	52 2063
5270	8.3	26 34.09	1.4579	0.0046	50 40 11.6	2.915	0.212	71.6	97 98 102	50 2416
5271	9.2	17 26 39.70	+1.4274	+0.0048	+ 51 11 30.7	−2.907	+0.207	74.6	319 320	51 2222
5272	9.0	26 57.29	1.2001	0.0059	54 45 3.3	2.882	0.174	74.6	321 322	54 1884
5273	9.6	27 14.81	1.3153	0.0053	53 0 47.5	2.856	0.191	73.6	249 250	53 1952
5274	9.1	27 18.60	1.3044	0.0054	53 10 56.0	2.851	0.190	81.4	417 418 819 873 876	53 1953
5275	9.0	27 29.61	1.3048	0.0053	53 10 22.9	2.835	0.190	80.6 78.8	7 obs. [1]	53 1954
5276	**2.6**	**17 27 36.57**	**+1.3538**	**+0.0051**	**+ 52 23 40.8**	**−2.825**	**+0.197**		**Fund. Cat.**	**52 2065**
5277	8.5	27 42.87	1.2998	0.0052	53 14 51.0	2.816	0.189	74.6	321 322	53 1955
5278	8.4	27 51.21	1.4855	0.0046	50 9 45.1	2.804	0.216	73.6	102 319 320	50 2419
5279	8.8	27 58.74	1.5047	0.0045	49 48 59.2	2.793	0.219	81.5	419 814 816	49 2652
5280	7.8	28 32.72	1.4501	0.0046	50 46 15.9	2.744	0.211	73.6	6 obs. [2]	50 2420
5281	7.2	17 28 54.36	+1.2189	+0.0056	+ 54 26 43.5	−2.712	+0.177	73.0	94 96 319 320	54 1889
5282	8.8	29 8.75	1.4662	0.0046	50 28 47.5	2.692	0.213	73.2	97 98 102 417 418	50 2422
5283	8.1	29 15.78	1.2179	0.0056	54 27 12.8	2.682	0.177	73.0	94 96 319 320	54 1890
5284	8.2	29 27.06	1.3340	0.0050	52 40 53.5	2.665	0.194	72.8	103 189 190 249 250	52 2066
5285	9.2	29 36.87	1.4390	0.0046	50 56 39.6	2.651	0.209	85.6	876	50 2425
5286	8.1	17 29 41.73	+1.3648	+0.0049	+ 52 10 55.0	−2.644	+0.198	79.6	321 322 814 816	52 2067
5287	9.0	29 41.99	1.4397	0.0046	50 55 50.6	2.644	0.209	76.8 74.6	5 obs. [3]	50 2426
5288	9.4	30 9.96	1.4576	0.0045	50 36 46.9	2.603	0.212	75.6	417 418	50 2427
5289	9.1	30 10.27	1.2266	0.0055	54 18 44.1	2.603	0.179	77.9	96 319 320 814 816	54 1893
5290	9.6	30 22.78	1.3447	0.0050	52 29 44.5	2.585	0.196	72.9	189 190 249	52 2068
5291	9.6	17 30 37.49	+1.4401	+0.0045	+ 50 54 33.4	−2.563	+0.210	72.8	99 101 102 317 318	50 2429
5292	9.0	31 53.30	1.3250	0.0049	52 47 10.8	2.454	0.193	73.1	97 98 319 320	52 2072
5293	9.1	32 11.49	1.3690	0.0047	52 4 31.1	2.427	0.199	73.9	7 obs. [4]	52 2073
5294	9.7	32 24.47	1.3689	0.0047	52 4 26.7	2.409	0.199	81.2	317 814 816	52 2074
5295	8.9	32 26.85	1.3586	0.0047	52 14 27.3	2.405	0.198	77.7	7 obs. [5]	52 2075
5296	8.9	17 32 49.39	+1.1705	+0.0055	+ 55 4 54.9	−2.372	+0.171	75.6	419 420 421	55 1953
5297	8.2	33 21.62	1.3379	0.0047	52 33 36.6	2.326	0.195	71.6	103 107	52 2078
5298	8.5	33 42.26	1.4226	0.0044	51 9 42.8	2.296	0.207	71.5	94 96	51 2233
5299	8.0	33 47.26	1.4285	0.0044	51 3 35.0	2.289	0.208	77.9	6 obs. [6]	51 2234
5300	8.6	33 51.81	1.4784	0.0042	50 11 37.8	2.282	0.215	71.6	97 98 101 102	50 2435

[1] Z. 317 318 323 818 819α 873 876α
[2] Z. 99 100 317 318 323 324
[3] Z. 317 318 323 324 876α
[4] Z. 103 249 250 318 323 324 325
[5] Z. 319 321 322 417 418 818 819
[6] Z. 317 318 319 320 814 816

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5301	9.0	17h 33m 52.s40	+1.s3318	+0.s0047	+ 52° 38′ 58.″0	−2.″281	+0.″194	73.6	249 250	52° 2079
5302	9.3	34 3.26	1.1717	0.0053	55 2 51.4	2.265	0.171	77.1	6 obs. [1]	55 1957
5303	9.5	34 3.99	1.4175	0.0044	51 14 36.5	2.264	0.206	74.6	323 324 325	51 2235
5304	8.8	34 8.45	1.3868	0.0045	51 45 20.1	2.258	0.202	75.6	417 418	51 2236
5305	8.2	34 24.05	1.4465	0.0043	50 44 33.2	2.235	0.211	78.0	99 100 814 816	50 2438
5306	8.2	17 34 27.52	+1.4574	+0.0042	+ 50 33 12.4	−2.230	+0.212	71.6	101 102	50 2440
5307	9.0	34 53.84	1.2930	0.0048	53 14 39.1	2.192	0.188	73.6	249 250	53 1963
5308	9.1	34 58.19	1.4049	0.0044	51 26 34.2	2.186	0.205	74.6	317 318 319 320	51 2237
5309	9.0	35 15.34	1.2789	0.0048	53 27 19.1	2.161	0.186	84.5	814 816	53 1964
5310	9.1	35 25.56	1.3288	0.0046	52 40 35.4	2.146	0.194	73.4	5 obs. [2]	52 2083
5311	9.0	17 35 57.00	+1.4883	+0.0040	+ 49 59 19.9	−2.101	+0.217	75.4	322 419 420 421	49 2675
5312	8.5	36 3.24	1.3837	0.0044	51 46 53.0	2.092	0.202	73.1	97 98 319 320	51 2240
5313	8.6	36 8.66	1.2598	0.0048	53 44 2.4	2.084	0.184	73.6	249 250	53 1967
5314	9.2	36 11.12	1.2306	0.0049	54 10 11.2	2.080	0.180	73.6	94 96 417 418	54 1900
5315	8.0	36 22.84	1.4897	0.0040	49 57 28.2	2.063	0.217	77.6	557 558	49 2676
5316	8.8	17 36 37.63	+1.2847	+0.0047	+ 53 20 58.9	−2.042	+0.187	85.6	873 876 877	53 1968
5317	6.8	36 40.86	1.4958	0.0040	49 50 43.6	2.037	0.218	75.3	321 419 421	49 2678
5318	8.7	37 23.01	1.2112	0.0049	54 26 19.8	1.976	0.177	75.3	320 417 418	54 1901
5319	8.3	37 43.31	1.2806	0.0046	53 23 55.5	1.946	0.187	75.4	11 obs. [3]	53 1972
5320	8.9	37 48.42	1.3884	0.0042	51 40 53.8	1.939	0.202	73.1	103 107 321 322	51 2241
5321	9.2	17 37 56.06	+1.4829	+0.0039	+ 50 3 39.0	−1.928	+0.216	72.9	7 obs. [4]	50 2446
5322	9.1	38 12.52	1.2789	0.0046	53 25 12.0	1.904	0.186	81.2	320 814 816	53 1973
5323	8.0	38 27.78	1.3970	0.0042	51 31 55.9	1.882	0.204	73.1	97 98 317 318	51 2242
5324	6.3	38 29.88	1.3759	0.0042	51 52 45.3	1.879	0.201	71.5	94 96	51 2243
5325	7.4	38 44.94	1.4548	0.0040	50 32 43.2	1.857	0.212	71.6	101 102	50 2449
5326	8.9	17 39 19.00	+1.2725	+0.0045	+ 53 30 15.4	−1.807	+0.186	74.8	5 obs. [5]	53 1974
5327	8.9	39 21.49	1.4289	0.0040	50 58 59.9	1.804	0.208	74.6	323 324 325	50 2451
5328	7.8	39 23.26	1.3610	0.0042	52 6 43.6	1.801	0.200	73.6	103 107 417 418	52 2089
5329	9.0	39 41.78	1.3882	0.0041	51 39 47.8	1.774	0.202	85.6	873α 875 876 877	51 2246
5330	8.6	39 42.37	1.4086	0.0040	51 19 24.2	1.773	0.205	81.2	320 814 816	51 2247
5331	8.7	17 39 48.69	+1.3867	+0.0041	+ 51 41 12.5	−1.764	+0.202	81.0 79.8	10 obs. [6]	51 2248
5332	9.2	39 52.39	1.4683	0.0039	50 17 45.8	1.759	0.214	71.6	99 100 101 102	50 2453
5333	8.6	40 22.24	1.4884	0.0038	49 56 3.8	1.716	0.217	75.6	419 420 421	49 2682
5334	9.0	40 37.70	1.4786	0.0038	50 6 26.0	1.693	0.216	71.6	97 98 101 102	50 2455
5335	4.0	41 22.70	1.2479	0.0044	53 51 17.4	1.628	0.182	73.6	249 250	53 1978
5336	8.1	17 41 24.04	+1.3764	+0.0040	+ 51 50 25.2	−1.626	+0.201	73.1	103 107 321 322	51 2250
5337	9.0	41 25.91	1.3172	0.0042	52 47 27.1	1.623	0.192	75.6	417 418	52 2094
5338	9.2	41 28.04	1.4816	0.0037	50 2 42.6	1.620	0.216	74.6	323 324	50 2456
5339	9.0	41 38.95	1.3480	0.0041	52 17 57.7	1.604	0.197	77.1	478 479 560 561	52 2095
5340	7.3	41 50.45	1.4786	0.0037	50 5 42.4	1.587	0.216	72.1 71.6	6 obs. [7]	50 2457
5341	9.5	17 41 56.37	+1.3681	+0.0040	+ 51 58 16.2	−1.579	+0.200	74.6	317 318	51 2251
5342	9.1	42 9.60	1.4660	0.0037	50 18 44.5	1.560	0.214	75.6	419 420 421	50 2459
5343	9.2	42 12.80	1.2816	0.0042	53 20 9.4	1.555	0.187	84.5	814 816	53 1980
5344	8.8	42 19.08	1.3663	0.0040	51 59 50.8	1.546	0.199	74.8	8 obs. [8]	52 2097
5345	9.1	42 20.45	1.3758	0.0040	51 50 32.6	1.544	0.201	84.6	817 818	51 2252
5346	8.2	17 42 47.84	+1.4702	+0.0037	+ 50 13 57.4	−1.504	+0.214	77.4	6 obs. [9]	50 2462
5347	9.1	43 8.00	1.2717	0.0041	53 28 45.0	1.475	0.186	73.6	249 250	53 1981
5348	9.0	43 8.20	1.1944	0.0044	54 37 27.4[10]	1.474	0.174	79.6 82.3	94α 560 817 818	54 1906
5349	8.1	43 21.40	1.3328	0.0040	52 31 34.4	1.455	0.194	71.6	103 107	52 2098
5350	8.7	43 22.88	1.4950	0.0036	49 47 16.0	1.453	0.218	84.5	814 816	49 2691

[1] Z. 322 419 560 561 667 668 [2] Z. 103 107 323 324 325
[3] Z. 249 250 317 318 419 420 421 474 476 478 479 [4] Z. 99 100 101 102 323 324 325
[5] Z. 249 250 419 420 421 [6] Z. 317 318 321 322 818 819 873 875 876α 877α [7] Z. 97 99 100 101 102 324α
[8] Z. 103 107 321 322 417 418 478 669 [9] Z. 98 323 324 325 817 818 [10] [23.″1] 25.″8 27.″5 28.″8

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5351	9.3	17h 43m 24s.79	+1s.4430	+0s.0037	+ 50° 42′ 7″.0	−1″.450	+0″.210	71.6	99 101 102	50 2463
5352	8.5	43 32.01	1.2681	0.0041	53 31 50.1	1.440	0.185	79.2	419 420 421 818 819	53 1982
5353	8.6	43 35.70	1.2372	0.0042	53 59 41.9	1.434	0.180	74.6	321 322	54 1907
5354	9.2	43 38.22	1.4001	0.0038	51 25 39.1	1.431	0.204	76.3	6 obs. [1]	51 2255
5355	7.5	43 52.26	1.2617	0.0041	53 37 30.0	1.410	0.184	80.6	476 477 814 816	53 1984
5356	8.8	17 44 4.46	+1.2209	+0.0042	+ 54 13 50.6	−1.392	+0.178	76.6 76.4	6 obs. [2]	54 1908
5357	8.7	44 19.03	1.2214	0.0042	54 13 19.1	1.371	0.178	76.6	6 obs. [3]	54 1909
5358	8.9	44 38.90	1.2583	0.0040	53 40 9.0	1.342	0.184	75.2	323 324 419 420 421	53 1986
5359	9.3	45 18.18	1.3871	0.0037	51 37 44.6	1.285	0.202	71.6	103 107	51 2258
5360	8.4	45 37.09	1.2632	0.0040	53 35 18.6	1.258	0.184	80.9	249 814 816	53 1991
5361	8.8	17 45 37.58	+1.3792	+0.0037	+ 51 45 26.9	−1.257	+0.201	74.6	321 322	51 2260
5362	9.2	45 39.04	1.4686	0.0035	50 14 15.7	1.255	0.214	71.6	97 98 101 102	50 2466
5363	9.2	45 40.10	1.2143	0.0040	54 18 55.4	1.253	0.177	75.6	417 418	54 1910
5364	8.4	45 51.61	1.1644	0.0042	55 1 47.1	1.236	0.170	75.6	419 420 421	55 1980
5365	9.9	45 58.61	1.4481	0.0035	50 35 31.8	1.226	0.211	71.6	104 105	50 2467
5366	5.7	17 46 5.35	+1.4353	+0.0036	+ 50 48 41.6	−1.217	+0.210	73.6	108 317 318	50 2468
5367	9.2	46 11.57	1.3932	0.0036	51 31 18.0	1.208	0.203	74.6	324 325	51 2261
5368	9.2	46 20.22	1.4849	0.0034	49 56 38.4	1.195	0.217	82.3 81.2	7 obs. [4]	49 2697
5369	6.2	46 29.43	1.2197	0.0040	54 13 49.6	1.182	0.178	75.6	418 419 420 421	54 1911
5370	9.2	47 18.35	1.4001	0.0035	51 23 58.9	1.110	0.204	73.1	101 102 317 318	51 2263
5371	9.0	17 47 20.57	+1.1864	+0.0040	+ 54 42 26.9	−1.107	+0.173	85.6	876	54 1913
5372	8.9	47 35.66	1.1888	0.0039	54 40 13.6	1.085	0.173	77.2 76.0	8 obs. [5]	54 1915
5373	7.2	47 41.95	1.4074	0.0035	51 16 25.8	1.076	0.206	71.6	103 107	51 2265
5374	9.3	47 44.24	1.2024	0.0039	54 28 23.5	1.072	0.175	78.2	564 667	54 1916
5375	8.6	47 49.11	1.1824	0.0039	54 45 38.1	1.065	0.173	76.0	419 420 421 478 479	54 1917
5376	9.4	17 47 56.22	+1.1930	+0.0039	+ 54 36 28.2	−1.055	+0.174	76.6	476 477	— —
5377	9.4	48 13.52	1.4088	0.0034	51 14 49.6	1.030	0.206	71.6	97 98 101 102	51 2266
5378	8.6	48 39.46	1.4858	0.0033	49 54 45.3	0.992	0.217	75.2	321 322 419 420 421	49 2701
5379	9.4	48 39.54	1.4192	0.0034	51 4 8.7	0.992	0.207	71.6	103 107	51 2267
5380	8.1	48 41.35	1.4147	0.0034	51 8 40.4	0.989	0.206	74.3	249 317 318	51 2268
5381	9.3	17 49 14.44	+1.3912	+0.0034	+ 51 32 9.3	−0.941	+0.203	76.0	324 325 417 560 561	51 2271
5382	7.9	49 25.90	1.4567	0.0033	50 25 10.2	0.924	0.213	71.6	99 100 101 102	50 2477
5383	8.6	49 38.78	1.1593	0.0038	55 4 42.8	0.906	0.169	75.2	321 322 419 420 421	55 1990
5384	8.9	50 3.61	1.4728	0.0032	50 8 7.7	0.870	0.215	80.2	104 814 816	50 2479
5385	9.4	50 8.56	1.4631	0.0032	50 18 15.8	0.862	0.214	71.6	106 108	50 2480
5386	8.9	17 50 16.38	+1.2711	+0.0035	+ 53 26 21.2	−0.851	+0.186	75.6	249 417 418 476 477	53 1998
5387	8.8	50 24.48	1.2801	0.0035	53 18 2.8	0.839	0.187	78.2	563 564 667 669 670	53 1999
5388	8.8	50 30.20	1.3859	0.0033	51 36 56.2	0.831	0.202	74.6	317 318	51 2273
5389	8.3	50 40.05	1.3370	0.0034	52 24 34.4	0.816	0.195	75.1	8 obs. [6]	52 2110
5390	9.2	50 44.58	1.3647	0.0033	51 57 43.7	0.810	0.199	74.6	324 325	51 2274
5391	9.8	17 51 16.56	+1.3895	+0.0032	+ 51 33 8.8	−0.763	+0.203	74.6	321 322	51 2275
5392	9.1	51 31.60	1.4579	0.0032	50 23 20.6	0.741	0.213	84.5	814 816	50 2483
5393	9.1	51 43.65	1.2348	0.0034	53 58 37.5	0.724	0.180	75.3	6 obs. [7]	53 2000
5394	8.8	52 12.08	1.3935	0.0032	51 28 58.3	0.682	0.203	75.9	103 107 817	51 2280
5395	7.9	52 17.37	1.3914	0.0032	51 30 58.1	0.674	0.203	78.9	7 obs. [8]	51 2281
5396	8.9	17 52 34.37	+1.2482	+0.0034	+ 53 46 28.6	−0.650	+0.182	74.8	249 250 419 420 421	53 2004
5397	9.5	52 52.77	1.4241	0.0031	50 57 52.2	0.623	0.208	71.6	99 100 101	[50 2487]
5398	8.6	53 1.57	1.4517	0.0031	50 29 26.0	0.610	0.212	71.6	97 98 104 105	50 2488
5399	9.0	53 21.79	1.4355	0.0030	50 46 5.2	0.581	0.210	73.6	106 324 325	50 2491
5400	**2.3**	**53 42.24**	**1.3919**	**0.0031**	**51 30 15.4**	**0.551**	**0.203**		**Fund. Cat.**	**51 2282**

[1] Z. 317 318 323 324 325 819
[2] Z. 417 418 474 475 560 561α
[3] Z. 417 418 474 475 560 561
[4] Z. 670 671 672 817 818α 875 881α
[5] Z. 323 324 325 474 475 560 561 876α
[6] Z. 103 107 419 421 474 475 478 479
[7] Z. 249 417 418 419 420 421
[8] Z. 321 322 324 325 816 817 818

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5401	8.6	17h 53m 51.06	+1.2281	+0.0033	+ 54° 4′ 7.2	−0.538	+0.179	75.6	417 418	54° 1924
5402	8.8	53 55.63	1.3354	0.0032	52 25 19.5	−0.531	0.195	71.6	103 107	52 2115
5403	8.2	54 20.06	1.2689	0.0032	53 27 23.6	−0.496	0.185	74.6	249 250 422 423	53 2008
5404	8.8	54 27.92	1.4099	0.0030	51 12 1.9	−0.484	0.206	74.6	321 322	51 2283
5405	9.2	54 52.65	1.3393	0.0031	52 21 26.6	−0.448	0.195	74.6	107 419 420 421	52 2118
5406	8.2	17 54 58.44	+1.4603	+0.0029	+ 50 20 5.2	−0.440	+0.213	71.6	104 105	50 2497
5407	9.4	55 2.20	1.3647	0.0030	51 56 48.8	−0.434	0.199	74.1	98 477	[51 2285]
5408	7.0	55 2.82	1.1860	0.0032	54 40 40.0	−0.433	0.173	75.6	417 418	54 1925
5409	8.9	55 14.77	1.3617	0.0030	51 59 43.3	−0.416	0.199	76.6	474 475 476	51 2286
5510	7.3	55 16.69	1.3472	0.0030	52 13 44.7	−0.413	0.196	80.0 79.0	6 obs. [1]	52 2119
5411	9.4	17 55 21.91	+1.4102	+0.0030	+ 51 11 29.8	−0.406	+0.206	74.6	321 322	[51 2287]
5412	8.3	55 56.31	1.1546	0.0031	55 7 16.9	−0.355	0.168	75.6	419 420 421	55 2001
5413	8.8	56 15.79	1.4085	0.0029	51 13 8.7	−0.327	0.206	72.9	102 249 250	51 2289
5414	8.5	56 19.25	1.3661	0.0029	51 55 17.8	−0.322	0.199	81.3	325 817 818	51 2290
5415	9.0	56 27.09	1.3594	0.0029	52 1 45.3	−0.310	0.198	71.6	103 107	52 2121
5416	8.5	17 56 36.21	+1.3704	+0.0029	+ 51 50 58.4	−0.297	+0.200	81.6	418 816 819	51 2291
5417	8.7	56 50.43	1.4416	0.0028	50 39 18.8	−0.276	0.210	79.0	8 obs. [2]	50 2501
5418	9.0	56 53.76	1.4099	0.0028	51 11 42.2	−0.272	0.206	75.6	419 420 421	51 2294
5419	7.8	57 5.33	1.4257	0.0028	50 55 36.9	−0.255	0.208	76.6	329 560 561	50 2502
5420	8.9	57 11.49	1.1600	0.0030	55 2 33.2	−0.246	0.169	74.6	321 322	55 2003
5421	8.9	17 57 16.96	+1.3191	+0.0029	+ 52 40 20.8	−0.238	+0.192	81.3	325 817 818	52 2122
5422	9.2	57 18.92	1.2803	0.0029	53 16 31.1	−0.235	0.187	75.7	422 423	53 2011
5423	9.2	57 23.69	1.4471	0.0028	50 33 30.4	−0.228	0.211	77.7	8 obs. [3]	50 2504
5424	9.2	57 31.86	1.4210	0.0028	51 0 18.5	−0.216	0.207	71.6	97 98	51 2296
5425	7.9 [4]	57 34.88	1.3074	0.0029	52 51 19.4	−0.212	0.191	71.6	103 [5]	52 2125
5426	8.8	17 57 35.63	+1.2391	+0.0029	+ 53 53 52.1	−0.211	+0.180	75.6	419 420 421	53 2012
5427	9.1	58 7.54	1.4055	0.0028	51 16 1.4	−0.164	0.205	78.8	102 325 817 818	51 2299
5428	8.0	58 12.42	1.2569	0.0029	53 37 48.4	−0.157	0.183	75.7	422 423	53 2013
5429	9.0	58 16.11	1.1715	0.0029	54 52 43.2	−0.152	0.171	75.6	417 418	54 1931
5430	8.4	58 18.41	1.2754	0.0028	53 20 56.7	−0.148	0.186	77.1	474 475 560 561	53 2014
5431	8.7	17 58 21.54	+1.2128	+0.0029	+ 54 17 2.8	−0.144	+0.177	79.0	7 obs. [6]	54 1932
5432	9.0	58 38.74	1.4881	0.0026	49 50 15.9	−0.118	0.217	75.6	419 420 421	49 2718
5433	8.6	58 56.68	1.1562	0.0028	55 5 40.2	−0.092	0.169	74.6	321 322	55 2009
5434	9.0	59 7.43	1.4112	0.0027	51 10 12.6	−0.077	0.206	74.3	8 obs. [7]	51 2300
5435	8.4	59 22.52	1.3942	0.0027	51 27 17.6	−0.055	0.203	82.1	325 816 817 818	51 2301
5436	7.4	17 59 23.49	+1.3832	+0.0027	+ 51 38 12.2	−0.053	+0.202	71.6	97 98	51 2302
5437	8.9	59 28.78	1.2166	0.0027	54 13 38.6	−0.046	0.178	75.6	417 418	54 1933
5438	8.9	59 29.57	1.3609	0.0027	52 0 9.4	−0.044	0.198	71.6	103 107	52 2132
5439	7.9	59 44.47	1.4817	0.0026	49 57 1.7	−0.023	0.216	75.6	419 420 421	49 2721
5440	8.1	18 0 5.91	1.4754	0.0026	50 3 42.2	+0.009	0.215	80.2	102 816 819	50 2512
5441	8.1	18 0 6.51	+1.4393	+0.0026	+ 50 41 30.3	+0.010	+0.210	78.8	8 obs. [8]	50 2513
5442	8.6	0 19.92	1.3237	0.0026	52 35 53.2	+0.029	0.193	78.3	6 obs. [9]	52 2133
5443	8.4	0 25.31	1.3074	0.0026	52 51 17.2	+0.037	0.191	71.6	103 107	52 2134
5444	8.8	0 50.82	1.3244	0.0027	52 35 14.5	+0.074	0.193	75.4	329 422 423	52 2135
5445	8.9	1 10.66	1.1505	0.0027	55 10 27.5	+0.103	0.168	75.6	419 420 421	55 2017
5446	8.2	18 1 22.40	+1.4335	+0.0026	+ 50 47 28.2	+0.120	+0.209	81.3	102 816 817 818	50 2519
5447	8.8	1 25.95	1.3867	0.0026	51 34 45.8	+0.126	0.202	71.6	99 100	51 2304
5448	9.0	1 28.70	1.1839	0.0026	54 42 8.8	+0.129	0.172	71.6	111 112	54 1935
5449	9.0	1 34.90	1.4292	0.0026	50 51 55.0	+0.138	0.208	71.6	104 105	50 2520
5450	8.6	1 53.23	1.3688	0.0025	51 52 28.3	+0.165	0.200	71.6	97 98 106	51 2306

[1] Z. 325 422 423 816 817α 818

[2] Z. 106 563 564 667 669 670 819 824

[3] Z. 102 104 105 480 481 816 821 822

[4] Dupl. maj.

[5] Z. 107 9m.0 & 8m.5, med. 34s.79 18″.7 (71.6)

[6] Z. 476 477 482 483 563 816 819

[7] Z. 99 100 106 329 422 423 476 477

[8] Z. 474 475 480 481 560 561 817 818

[9] Z. 325 329 422 423 816 819

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5451	9.2	18h 2m13.s12	+1.s2512	+0.s0025	+ 53°43′ 1.″3	+0.″194	+0.″182	75.7	422 423	53°2025
5452	8.3	2 26.60	1.2753	0.0025	53 21 6.9	0.214	0.186	80.3	7 obs. [1]	53 2026
5453	8.8	2 29.34	1.2267	0.0025	54 4 53.4	0.218	0.179	71.6	111 112	54 1938
5454	7.5	2 39.67	1.3653	0.0024	51 55 58.9	0.233	0.199	80.3	108 817 818	51 2308
5455	8.6	2 47.19	1.3613	0.0024	51 59 53.8	0.244	0.198	76.5	6 obs. [2]	52 2139
5456	8.5	18 2 47.91	+1.4606	+0.0024	+ 50 19 29.9	+0.245	+0.213	75.3	6 obs. [3]	50 2522
5457	8.9	2 51.86	1.3088	0.0024	52 50 5.9	0.251	0.191	77.3	6 obs. [4]	52 2140
5458	7.4	2 56.17	1.1564	0.0024	55 5 38.0	0.257	0.168	80.1	322 819 821 822	55 2025
5459	8.2	3 2.28	1.1980	0.0024	54 30 6.2	0.266	0.175	79.6	6 obs. [5]	54 1940
5460	9.0	3 8.31	1.2362	0.0024	53 56 30.4	0.275	0.180	76.5 75.0	7 obs. [6]	53 2028
5461	9.0	18 3 11.83[7]	+1.2380	+0.0024	+ 53 54 48.1	+0.280	+0.180	85.6	879 880 881δ	53 2029
5462	9.2	3 14.81	1.3402	0.0024	52 20 17.0	0.284	0.195	75.6	422 423	52 2141
5463	8.7	3 32.18	1.4794	0.0024	49 59 42.0	0.310	0.216	75.6	419 420	49 2730
5464	8.9	3 48.87	1.4535	0.0024	50 27 0.4	0.334	0.212	72.9	101 102 421	50 2524
5465	6.9	3 54.24	1.4330	0.0024	50 48 11.6	0.342	0.209	71.6	104 105	50 2525
5466	9.0	18 4 22.47	+1.2536	+0.0023	+ 53 41 4.6	+0.383	+0.183	71.6	109 110	53 2031
5467	9.1	4 37.59	1.1996	0.0023	54 28 50.8	0.405	0.175	71.6	111 112	54 1942
5468	8.2	4 45.16	1.2878	0.0023	53 9 53.9	0.416	0.188	75.8	329 422 423 474 475	53 2033
5469	8.9	4 48.08	1.2239	0.0023	54 7 39.0	0.420	0.179	74.6	321 322	54 1943
5470	8.1	4 48.18	1.4293	0.0023	50 52 9.8	0.420	0.208	71.6	101 102	50 2527
5471	9.2	18 4 50.97	+1.1933	+0.0022	+ 54 34 19.0	+0.424	+0.174	75.6	419 420 421	54 1944
5472	8.0	4 55.28	1.3610	0.0023	52 0 27.4	0.431	0.198	71.6	97 98	51 2312
5473	8.8	5 1.54	1.3054	0.0022	52 53 29.6	0.440	0.190	78.6	7 obs. [8]	52 2146
5474	8.7	5 24.28	1.2226	0.0022	54 8 52.8	0.473	0.178	71.6	111 112	54 1946
5475	8.9	5 59.81	1.4111	0.0022	51 10 51.0	0.525	0.205	73.6	103 107 422 423	51 2315
5476	8.7	18 6 12.72	+1.4016	+0.0022	+ 51 20 25.8	+0.544	+0.204	75.6	419 420 421	51 2316
5477	9.0	6 23.38	1.2862	0.0022	53 11 35.1	0.559	0.187	72.6	109 110 329	53 2036
5478	7.6	6 38.05	1.4582	0.0022	50 22 31.7	0.580	0.212	71.6	101 102	50 2531
5479	8.6	6 44.86	1.3710	0.0021	51 50 55.1	0.590	0.200	80.6	326 328 816 817 818	51 2319
5480	8.7	6 46.44	1.4088	0.0022	51 13 18.8	0.593	0.205	75.6	422 423	51 2318
5481	9.0	18 7 15.16[9]	+1.1635	+0.0020	+ 55 0 15.4	+0.634	+0.169	77.6	561 564	55 2034
5482	8.0	7 22.56	1.3697	0.0021	51 52 22.4	0.645	0.199	71.6	97 98 103 107	51 2323
5483	9.2	7 50.91	1.3796	0.0020	51 42 42.2	0.687	0.201	75.7	424 425	— —
5484	9.2	7 50.94	1.3795	0.0020	51 42 52.8	0.687	0.201	76.6	476 477	[51 2325]
5485	8.8	7 55.39	1.3937	0.0021	51 28 49.0	0.693	0.203	80.6	326 328 816 817 818	51 2326
5486	6.8	18 7 57.80	+1.2163	+0.0020	+ 54 14 57.9	+0.697	+0.177	71.6	111 112	54 1950
5487	9.4	7 58.65	1.3844	0.0020	51 38 2.6	0.698	0.201	77.6	422 669 670	51 2327
5488	8.9	7 58.72	1.4454	0.0021	50 36 11.8	0.698	0.210	71.6	101 102	50 2533
5489	8.6	8 4.72	1.2822	0.0020	53 15 41.9	0.707	0.187	71.6	109 110	53 2041
5490	8.1	8 6.59	1.2685	0.0020	53 28 15.2	0.710	0.185	76.4	9 obs. [10]	53 2042
5491	8.2	18 8 7.57	+1.4360	+0.0021	+ 50 45 56.8	+0.711	+0.209	71.6	104 105	50 2534
5492	7.2	8 8.89	1.3798	0.0020	51 42 36.9	0.713	0.201	73.6	106 108 424 425	51 2328
5493	7.8	8 12.67	1.1971	0.0019	54 31 43.1	0.718	0.174	79.6 80.2	8 obs. [11]	54 1951
5494	9.5	8 25.91	1.2692	0.0020	53 27 42.5	0.738	0.185	85.6	879 881α	} 53 2043
5495	9.5	8 26.95	1.2691	0.0020	53 27 53.6	0.739	0.185	85.6	879α 881	
5496	9.0	18 8 52.18	+1.3915	+0.0020	+ 51 31 11.4	+0.776	+0.202	71.6	103 107	51 2330
5497	8.9	8 54.78	1.2699	0.0019	53 27 11.1	0.780	0.185	71.6	109 110	53 2044
5498	9.3	8 59.56	1.4143	0.0020	51 8 23.5	0.787	0.206	80.6	101 817 884	} 51 2331
5499	9.0	9 1.66	1.4145	0.0020	51 8 10.0	0.790	0.206	80.4 81.3	6 obs. [12]	
5500	7.3	9 7.27	1.3449	0.0019	52 16 59.0	0.798	0.196	75.0	326 327 328 422 423	52 2158

[1] Z. 482 483 560 561 816 817 818 [2] Z. 107 329 563 564 671 672 [3] Z. 102 419 420 421 474 475
[4] Z. 478 479 480 481 669 670 [5] Z. 482 483 560 561 816 819 [6] Z. 109 110 476 477 484 485 881α
[7] 11.s81 11.s85 [12.s52] [8] Z. 103 107 480 481 816 817 818 [9] 15.s48 14.s85
[10] Z. 329 330 474 478 479 484 485 560 561 [11] Z. 482 483 564 671 674 816δ 817 818 [12] Z. 101α 102 816 817 818 884α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5501	9.1	18h 9m 21s.55	+1s.2673	+0s.0019	+ 53° 29′ 42″.4	+0″.819	+0″.184	75.0	6 obs. [1]	53° 2047
5502	8.1	9 24.32	1.3606	0.0019	52 1 46.0	0.823	0.198	77.6	6 obs. [2]	52 2159
5503	7.5	9 29.96	1.3196	0.0019	52 41 9.0	0.831	0.192	75.7	424 425	52 2161
5504	8.9	9 32.42	1.4559	0.0020	50 25 40.8	0.835	0.212	71.6	97 98	50 2538
5505	8.9	9 42.75	1.3657	0.0019	51 56 55.4	0.850	0.199	74.7	329 330	51 2332
5506	8.4	18 10 5.11	+1.2657	+0.0018	+ 53 31 23.7	+0.882	+0.184	73.6	109 110 568	53 2048
5507	9.2	10 7.04	1.1990	0.0017	54 30 37.3	0.885	0.174	77.2	482 483 563 564	54 1955
5508	8.8	10 12.85	1.1835	0.0017	54 44 1.4	0.893	0.172	71.6	111 112	54 1956
5509	9.2	10 20.02	1.3769	0.0020	51 46 6.2	0.904	0.200	71.6	106 108	51 2333
5510	9.0	10 26.76	1.4243	0.0019	50 58 35.4	0.914	0.207	71.6	101 102	50 2542
5511	9.4	18 10 29.55	+1.3392	+0.0018	+ 52 22 53.2	+0.918	+0.195	71.6	103 107	52 2165
5512	8.4	10 29.78	1.4526	0.0019	50 29 29.6	0.918	0.211	71.6	104 105	50 2543
5513	9.0	10 30.16	1.2565	0.0018	53 39 49.4	0.919	0.183	75.7	422 423	53 2050
5514	8.9	10 30.84	1.3211	0.0018	52 40 3.9	0.920	0.192	74.6	326 327 328	52 2166
5515	8.8	10 39.61	1.3344	0.0018	52 27 28.4	0.932	0.194	79.2	5 obs. [3]	52 2167
5516	8.8	18 11 3.63	+1.3330	+0.0018	+ 52 28 55.9	+0.967	+0.194	79.5 78.1	11 obs. [4]	52 2170
5517	9.4	11 6.85	1.3324	0.0018	52 29 31.2	0.972	0.194	81.6	5 obs. [5]	52 2171
5518	9.2	11 9.59	1.2677	0.0017	53 29 55.2	0.976	0.184	71.6	109 110	53 2053
5519	8.5	11 9.95	1.2578	0.0017	53 38 53.9	0.977	0.183	78.1	111 112 819 822	53 2054
5520	9.3	11 17.72	1.3961	0.0018	51 27 23.8	0.988	0.203	74.6	326 327 328	51 2335
5521	9.2	18 11 18.46	+1.3232	+0.0018	+ 52 38 21.0	+0.989	+0.192	74.7	329 330	52 2173
5522	8.0	11 38.44	1.4694	0.0019	50 12 14.2	1.018	0.214	71.6	97 98	50 2547
5523	7.6	11 52.41	1.3311	0.0017	52 31 4.8	1.038	0.193	71.6	103 107	52 2174
5524	8.6	12 5.47	1.2604	0.0016	53 36 53.8	1.058	0.183	71.6	109 110	53 2057
5525	8.0	12 19.92	1.3564	0.0017	52 6 53.6	1.079	0.197	79.6	329 330 817 818	52 2175
5526	7.3	18 12 21.18	+1.4277	+0.0018	+ 50 55 50.4	+1.080	+0.208	71.6	101 102	50 2549
5527	9.2	12 23.73	1.4151	0.0018	51 8 41.5	1.084	0.206	74.6	326 327 328	51 2339
5528	9.2	12 39.43	1.3117	0.0016	52 49 44.2	1.107	0.191	71.6	103 107	52 2176
5529	7.5	12 42.95	1.2281	0.0015	54 6 5.0	1.112	0.178	71.6	111 112	54 1960
5530	8.2	12 46.64	1.3892	0.0017	51 34 54.2	1.118	0.202	75.7	422 423	51 2340
5531	9.5	18 12 48.98	+1.3796	+0.0016	+ 51 44 24.0	+1.121	+0.200	75.7	424 425	51 2341
5532	8.7	12 55.40	1.1990	0.0015	54 31 39.1	1.130	0.174	77.0	6 obs. [6]	54 1961
5533	8.0	13 1.30	1.4536	0.0018	50 29 22.2	1.139	0.211	71.6	106 108	50 2551
5534	8.8	13 17.47	1.4071	0.0017	51 17 11.2	1.162	0.204	74.6	326 327 328	51 2342
5535	7.6	13 20.66	1.2849	0.0015	53 15 1.5	1.167	0.187	71.6	109 110	53 2060
5536	8.6	18 13 21.18	+1.4709	+0.0018	+ 50 11 24.8	+1.168	+0.214	74.3	104 424 425	50 2552
5537	8.2	13 26.68	1.4491	0.0017	50 34 14.4	1.176	0.210	71.6	101 102	50 2553
5538	9.0	13 27.16	1.4345	0.0017	50 49 17.9	1.176	0.208	71.6	97 98	50 2554
5539	8.2	13 30.58	1.3124	0.0016	52 49 24.2	1.182	0.191	74.7	329 330	52 2178
5540	7.1	13 52.67	1.4135	0.0017	51 10 57.7	1.214	0.205	75.4	331 422 423	51 2344
5541	8.6	18 14 8.14	+1.3620	+0.0016	+ 52 2 10.9	+1.236	+0.198	71.6	103 107	52 2179
5542	8.9	14 14.27	1.3999	0.0016	51 24 46.7	1.245	0.203	74.6	326 327 328	51 2347
5543	9.3	14 14.37	1.4245	0.0016	50 59 57.2	1.245	0.207	78.1	101 818	} 50 2557
5544	9.4	14 15.28	1.4246	0.0016	50 59 50.0	1.246	0.207	76.4	101 329 330 818	
5545	8.9	14 33.13	1.1871	0.0013	54 42 38.2	1.272	0.172	73.7	111 112 424 425	54 1965
5546	8.4	18 15 1.66	+1.2565	+0.0013	+ 53 41 39.6	+1.314	+0.182	71.6	109 110	53 2064
5547	9.1	15 17.20	1.1588	0.0012	55 7 2.6	1.337	0.168	77.6	560 561	55 2051
5548	8.9	15 24.91	1.2199	0.0012	54 14 28.0	1.348	0.177	71.6	111 112	54 1967
5549	8.8	15 25.60	1.3542	0.0015	52 10 26.0	1.349	0.196	72.6	103 107 331	52 2181
5550	9.0	15 35.38	1.2655	0.9013	53 33 47.4	1.363	0.184	75.7	422 423	53 2065

[1] Z. 111 112 478 479 482 483 [2] Z. 480 481 563 564 669 670 [3] Z. 329 330 425 882 883
[4] Z. 424 425 478 479 563 564 669 670 881 882α 883α [5] Z. 480 481 817 818 881
[6] Z. 476 477 482 483 563 564

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5551	8.6	18h 15m 36s.29	+1s.3956	+0s.0015	+ 51° 29′ 42″.7	+1″.364	+0″.202	73.8	7 obs. [1]	51° 2350
5552	9.0	15 41.11	1.2154	0.0012	54 18 31.2	1.372	0.176	75.7	424 425	54 1968
5553	9.1	15 55.41	1.3972	0.0015	51 28 17.5	1.392	0.203	73.8	104 326 327 328	51 2351
5554	8.6	15 56.90	1.4876	0.0016	49 54 49.2	1.394	0.216	78.2	561 674	49 2765
5555	8.9	16 8.11	1.3851	0.0014	51 40 28.2	1.411	0.200	71.6	106 108	51 2352
5556	8.0	18 16 11.05	+1.1994	+0.0012	+ 54 32 47.8	+1.415	+0.174	71.6	109 110	54 1970
5557	9.0	16 30.24	1.4214	0.0015	51 4 13.9	1.443	0.206	81.3	329 819 822	51 2354
5558	6.8	16 32.21	1.3283	0.0013	52 35 51.8	1.446	0.193	73.6	103 107 422 423	52 2184
5559	9.2	16 51.81	1.4277	0.0015	50 57 59.8	1.474	0.207	73.6	97 98 424 425	50 2564
5560	8.6	16 58.41	1.1981	0.0011	54 34 17.5	1.484	0.174	80.3	110 817 818	54 1972
5561	6.2	18 17 0.42	+1.4084	+0.0014	+ 51 17 36.8	+1.487	+0.204	71.6	101 102	51 2357
5562	9.0	17 2.24	1.3171	0.0013	52 46 44.0	1.490	0.191	74.7	331 332	52 2186
5563	9.0	17 19.95	1.3128	0.0012	52 50 57.1	1.515	0.190	75.7	422 423	52 2189
5564	9.4	17 27.79	1.3940	0.0014	51 32 21.7	1.527	0.202	74.6	326 327 329 330	51 2358
5565	8.4	17 29.44	1.2026	0.0010	54 30 38.2	1.529	0.174	71.6	109 111 112	54 1973
5566	9.2	18 17 30.36	+1.3275	+0.0012	+ 52 37 7.0	+1.530	+0.192	71.6	103 107	52 2190
5567	8.5	17 44.26	1.2096	0.0010	54 24 42.6	1.551	0.175	75.7	424 425	54 1974
5568	9.0	17 54.64	1.4838	0.0015	49 59 57.0	1.566	0.215	75.7	426 428	49 2777
5569	8.8	17 59.86	1.4838	0.0015	50 0 5.4	1.573	0.215	76.6	427 429 560 561	— —
5570	8.8	18 10.10	1.4549	0.0014	50 30 39.4	1.588	0.211	71.6	101 102	50 2569
5571	9.0	18 18 10.13	+1.2752	+0.0011	+ 53 26 19.5	+1.588	+0.185	77.0	6 obs. [2]	53 2070
5572	6.4	18 32.96	1.4124	0.0013	51 14 27.8	1.621	0.205	74.6	326 327 328	51 2362
5573	8.8	18 33.05	1.4666	0.0014	50 18 37.1	1.622	0.213	71.6	104 105	50 2570
5574	9.0	18 33.38 [3]	1.3586	0.0012	52 7 50.4	1.622	0.197	80.3 78.1	103δ 107 817 818	52 2193
5575	8.3	18 34.69	1.2815	0.0011	53 20 44.0	1.624	0.186	77.7	566 568	53 2072
5576	8.1	18 18 45.42	+1.2409	+0.0010	+ 53 57 39.6	+1.639	+0.180	71.6	109 110	53 2073
5577	7.7	18 49.14	1.3142	0.0011	52 50 27.2	1.645	0.190	74.7	331 332	52 2194
5578	9.1	18 50.80	1.3932	0.0013	51 33 57.9	1.647	0.202	76.6	329 560 561	51 2363
5579	9.2	19 5.30	1.3259	0.0011	52 39 32.2	1.668	0.192	80.2	422 423 817 818	52 2195
5580	8.7	19 9.32	1.4290	0.0013	50 57 57.7	1.674	0.207	73.2	5 obs. [4]	50 2571
5581	8.8	18 19 14.04	+1.1729	+0.0008	+ 54 57 13.4	+1.681	+0.170	71.6	111 112	54 1975
5582	9.1	19 16.49	1.3483	0.0012	52 18 16.0	1.685	0.195	76.8	7 obs. [5]	52 2197
5583	6.9	19 16.67	1.3986	0.0012	51 28 46.0	1.685	0.202	76.8 77.4	5 obs. [6]	51 2365
5584	9.0	19 16.97	1.3496	0.0012	52 16 57.1	1.685	0.195	76.7	426 427 566 567	52 2198
5585	8.8	19 19.75	1.3572	0.0012	52 9 36.4	1.689	0.197	71.6	103 107	52 2199
5586	7.5	18 19 23.02	+1.1649	+0.0008	+ 55 4 3.7	+1.694	+0.169	82.6	671 819 822	55 2060
5587	9.1	19 31.26	1.4607	0.0013	50 25 23.0	1.706	0.212	78.1	106 108 817 818	50 2572
5588	8.6	19 57.28	1.1889	0.0007	54 43 57.8	1.744	0.172	75.7	424 425	54 1977
5589	8.1	20 8.57	1.4908	0.0013	49 53 55.1	1.760	0.216	75.7	427 428 429	49 2785
5590	8.9	20 12.80	1.4017	0.0012	51 26 19.1	1.766	0.203	78.6	5 obs. [7]	51 2369
5591	8.1	18 20 32.23	+1.2371	+0.0008	+ 54 2 4.5	+1.795	+0.179	78.1	111 112 817 818	54 1978
5592	8.5	20 34.70	1.4439	0.0012	50 43 30.6	1.798	0.209	73.2	101 102 331 332	50 2575
5593	7.5	20 37.65	1.2153	0.0007	54 21 23.6	1.803	0.176	77.0	6 obs. [8]	54 1979
5594	8.2	20 43.62	1.2250	0.0008	54 12 59.6	1.811	0.177	75.7	424 425	54 1980
5595	9.0	20 47.67	1.2592	0.0008	53 42 26.2	1.817	0.182	76.3	109 110 882	53 2078
5596	8.2	18 20 50.09	+1.3938	+0.0011	+ 51 34 35.8	+1.821	+0.202	74.7	329 330	51 2372
5597	6.8	21 6.34	1.2905	0.0009	53 13 59.4	1.844	0.187	77.4	6 obs. [9]	53 2079
5598	9.1	21 20.28	1.2562	0.0008	53 45 30.1	1.864	0.182	77.0	5 obs. [10]	53 2080
5599	8.3	21 22.23	1.4010	0.0011	51 27 48.6	1.867	0.203	74.6	326 327 328	51 2375
5600	8.7	21 23.22	1.3070	0.0009	52 58 48.2	1.869	0.189	74.9	5 obs. [11]	52 2206

[1] Z. 101 102 326 327 328 329 330
[2] Z. 478 479 480 481 484 485
[3] [34s.38] 33s.39 33s.32 33s.43
[4] Z. 97 101 102 424 425
[5] Z. 426 427 484 485 563 566 567
[6] Z. 326α 480 481 568 669
[7] Z. 326 327 328 819 822
[8] Z. 480 481 482 483 560 561
[9] Z. 484 485 563 564 568 569
[10] Z. 480 481 483 566 567
[11] Z. 103 422 423 428 429

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5601	9.2	18h 21m 23.72	+1.1946	+0.0006	+ 54°39′ 59.″4	+1.″870	+0.″173	71.6	111 112	54° 1983
5602	8.4	21 48.42	1.4635	0.0012	50 23 59.6	1.905	0.212	71.6	101 102	50 2577
5603	9.1	22 1.34	1.4896	0.0012	49 56 28.7	1.924	0.216	80.0	5 obs. [1]	49 2789
5604	9.0	22 1.82	1.4596	0.0012	50 28 14.0	1.925	0.211	72.6	104 105 331	50 2578
5605	8.5	22 10.12	1.3972	0.0010	51 32 4.9	1.937	0.202	75.3	330 424 425	51 2377
5606	9.2	18 22 24.00	+1.4619	+0.0012	+ 50 26 5.4	+1.957	+0.211	81.3	332 819 822	50 2580
5607	9.4	22 24.87	1.1863	0.0004	54 47 45.6	1.958	0.172	71.6	109 110 111	54 1987
5608	9.0	22 28.27	1.4699	0.0012	50 17 42.7	1.963	0.212	78.7 75.2	6 obs. [2]	50 2581
5609	8.8	22 55.16	1.4822	0.0012	50 4 56.7	2.002	0.214	79.0	424 425 880	50 2583
5610	8.4	22 55.65	1.1990	0.0005	54 37 11.2	2.003	0.173	80.3	112 817 818	54 1988
5611	9.2	18 22 56.52	+1.4263	+0.0010	+ 51 3 18.0	+2.004	+0.206	74.6	327 328	51 2379
5612	9.2	22 56.55	1.4719	0.0011	50 15 55.0	2.004	0.213	85.6	882	50 2582
5613	8.8	23 15.56	1.2823	0.0007	53 23 4.6	2.032	0.185	73.6	109 110 428 429	53 2083
5614	9.1	23 19.66	1.3585	0.0009	52 11 4.6	2.038	0.196	74.7	331 332	52 2209
5615	8.5	23 22.25	1.3733	0.0009	51 56 38.5	2.042	0.198	74.7	326 329 330	51 2381
5616	8.9	18 23 28.74	+1.2818	+0.0007	+ 53 23 40.9	+2.051	+0.185	75.7	428 429	53 2084
5617	8.8	23 38.77	1.3290	0.0008	52 39 44.5	2.066	0.192	76.2	426 427 480 481	52 2212
5618	8.2	23 41.60	1.3749	0.0009	51 55 19.4	2.070	0.199	74.6	327 328	51 2382
5619	8.9	23 43.58	1.3098	0.0007	52 57 53.4	2.072	0.189	75.7	424 425	52 2213
5620	9.6	23 49.87	1.2381	0.0005	54 3 32.1	2.082	0.179	81.3	333 819 822	54 1991
5621	8.5	18 24 4.56	+1.3075	+0.0007	+ 53 0 17.0	+2.103	+0.189	71.7	113 114	52 2214
5622	8.2	24 30.35	1.4250	0.0010	51 5 44.3	2.140	0.206	79.6	329 330 817 822	51 2387
5623	7.9	24 30.47	1.1875	0.0003	54 48 19.4	2.140	0.171	73.7	111 112 426 427	54 1993
5624	9.2	24 32.96	1.4683	0.0010	50 20 58.3	2.144	0.212	73.7	105 331 332	50 2590
5625	8.5	24 34.72	1.3925	0.0009	51 38 39.2	2.147	0.201	75.7	422 423	51 2388
5626	8.3	18 24 38.06	+1.3982	+0.0009	+ 51 32 57.7	+2.151	+0.202	74.6	326 327 328	51 2389
5627	7.6	25 2.28	1.4337	0.0009	50 57 20.0	2.186	0.207	74.7	333 334	50 2592
5628	7.4	25 3.66	1.2517	0.0004	53 52 15.9	2.189	0.180	71.6	109 110	53 2089
5629	8.7	25 7.64	1.4515	0.0010	50 39 0.8	2.194	0.210	75.7	424 425	50 2593
5630	9.1	25 34.17	1.1774	0.0002	54 57 42.5	2.233	0.170	77.3	6 obs. [3]	54 1998
5631	8.5	18 25 43.16	+1.3493	+0.0007	+ 52 21 52.6	+2.246	+0.195	74.2	113 114 480 481	52 2217
5632	7.7	25 49.98	1.3802	0.0007	51 51 49.1	2.256	0.199	74.6	5 obs. [4]	51 2392
5633	8.9	26 23.17	1.2500	0.0003	53 54 50.9	2.304	0.180	80.3	110 817 822	53 2093
5634	8.9	26 27.71	1.4603	0.0009	50 30 53.5	2.310	0.211	75.2	329 330 424 425	50 2599
5635	9.6	26 48.19	1.2387	0.0003	54 5 19.4	2.340	0.178	75.6	422 423	[54 2001]
5636	9.2	18 26 48.74	+1.2537	+0.0002	+ 53 51 53.4	+2.341	+0.180	74.7	333 334	53 2095
5637	8.8	26 49.43	1.1687	0.0000	55 6 10.7	2.342	0.168	79.0	426 427 881	55 2081
5638	9.5	27 6.64	1.3397	0.0005	52 32 14.3	2.367	0.193	71.7	103 113 114	52 2221
5639	8.4	27 11.02	1.1719	0.0000	55 3 45.3	2.373	0.169	75.7	427	55 2083
5640	8.4	27 27.17	1.4852	0.0009	50 5 32.2	2.396	0.214	81.4	104 817 821 822	50 2602
5641	9.2	18 27 28.82	+1.1725	+0.0000	+ 55 3 29.3[5]	+2.399	+0.169	78.1	422 423 426 880α	— —
5642	9.1	27 31.82	1.4880	0.0009	50 2 37.8	2.403	0.214	71.6	105 106	[50 2603]
5643	9.0	27 33.84	1.4899	0.0009	50 0 33.0	2.406	0.215	74.7	329 330	50 2604
5644	9.0	27 39.01	1.4150	0.0007	51 18 34.7	2.414	0.204	74.6	326 327 328	51 2394
5645	9.2	27 43.14	1.2026	0.0001	54 37 48.1	2.420	0.173	71.6	111 112	54 2004
5646	9.0	18 28 7.97	+1.4258	+0.0007	+ 51 8 3.2	+2.456	+0.205	74.7	331 332	51 2395
5647	9.1	28 16.82	1.3068	0.0003	53 4 26.0	2.468	0.188	75.2	333 334 426 427	53 2097
5648	8.1	28 32.30	1.3525	0.0005	52 21 11.9	2.491	0.195	73.0	113 114 422	52 2225
5649	8.4	28 35.61	1.4630	0.0008	50 29 58.2	2.496	0.211	71.6	101 102	50 2607
5650	9.0	28 42.82	1.3119	0.0003	53 0 5.6	2.506	0.189	74.6	326 327 328	52 2228

[1] Z. 427 560 561 818 819 [2] Z. 333 334 422 423 881α 882α [3] Z. 111 112 426 427 817 819
[4] Z. 326 327 328 331 332 [5] 28.″7 30.″0 29.″1 [34.″0]

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5651	9.2	$18^h\ 28^m\ 57^s.55$	$+1^s.3270$	$+0^s.0004$	$+\ 52°45'\ 58''.8$	$+2''.527$	$+0''.191$	74.7	329 330	52° 2230
5652	9.0	29 0.75	1.3369	+0.0004	52 36 39.3	2.532	0.192	74.7	331 332	52 2231
5653	8.8	29 6.46	1.1992	−0.0001	54 42 1.8	2.540	0.172	74.0	6 obs. [1]	54 2007
5654	7.2	29 19.78	1.3737	+0.0005	52 1 18.8	2.560	0.198	71.7	113 114	52 2232
5655	8.7	29 59.27	1.1753	−0.0003	55 3 18.4	2.617	0.169	75.7	422 426 427	55 2090
5656	7.6	18 29 59.28	+1.3573	+0.0004	+ 52 17 57.2	+2.617	+0.195	71.6	103 107	52 2234
5657	9.1	30 28.33	1.3917	+0.0004	51 44 33.6	2.659	0.200	72.8	5 obs. [2]	51 2401
5658	8.5	30 32.42	1.1883	−0.0003	54 52 42.0	2.664	0.170	73.2	109 110 331 332	54 2011
5659	8.4	30 46.73	1.3273	+0.0002	52 47 28.4	2.685	0.191	71.7	113 114	52 2236
5660	8.9	30 58.26	1.4439	+0.0006	50 52 10.2	2.702	0.208	71.6	104 105	50 2615
5661	8.2	18 30 58.55	+1.3989	+0.0004	+ 51 37 55.2	+2.702	+0.210	78.8	108 327 817 823	51 2402
5662	8.9	31 3.91	1.3611	+0.0003	52 15 18.3	2.710	0.196	75.9	103 107 823	52 2237
5663	5.8	31 6.68	1.3611	+0.0003	52 15 18.5	2.714	0.196	79.4	5 obs. [3]	52 2238
5664	8.6	31 20.06	1.5021	+0.0007	49 51 6.6	2.733	0.216	78.3	6 obs. [4]	49 2824
5665	7.8	31 24.40	1.4360	+0.0005	51 0 47.3	2.740	0.206	71.6	101 102	50 2618
5666	6.8	18 31 36.83	+1.3965	+0.0004	+ 51 40 59.4	+2.758	+0.200	74.7	328 329 330	51 2404
5667	9.2	32 20.96	1.3264	+0.0001	52 49 51.8	2.821	0.190	71.6	103 107	52 2243
5668	8.0	32 24 21	1.2434	−0.0002	54 6 19.7	2.826	0.178	74.0	6 obs. [5]	54 2013
5669	8.7	32 31.47	1.4312	+0.0005	51 6 49.3	2.836	0.205	73.8	7 obs. [6]	51 2406
5670	9.0	33 9.78	1.1680	−0.0006	55 12 39.4	2.892	0.167	74.7	333 334	55 2095
5671	9.3	18 33 19.05	+1.4571	+0.0004	+ 50 40 51.0	+2.905	+0.209	71.6	101 102	50 2624
5672	8.8	33 22.65	1.2016	−0.0005	54 44 7.0	2.910	0.172	73.2	109 110 331 332	54 2015
5673	7.8	33 36.10	1.3933	+0.0002	51 46 11.0	2.930	0.200	73.4	5 obs. [7]	51 2408
5674	8 0	33 47.70	1.1952	−0.0006	54 50 4.8	2.946	0.171	71.6	111 112	54 2018
5675	8.8	34 0.34	1.3271	0.0000	52 50 57.9	2.965	0.189	71.6	103 107	52 2250
5676	8.6	18 34 13.45	+1.4862	+0.0005	+ 50 11 10.1	+2.984	+0.214	73.2	101 102 329 330	50 2627
5677	8.0	34 22.44	1.2048	−0.0006	54 42 21.2	2.990	0.172	73.2	113 114 331 332	54 2020
5678	8.2	34 43.53	1.3134	−0.0002	53 4 38.3	3.027	0.188	73.2	109 110 333 334	53 2108
5679	7.5	34 47.30	1.3906	+0.0001	51 50 11.0	3.032	0.199	74.6	326 327 328	51 2410
5680	8.0	35 40.32	1.2695	−0.0004	53 46 18.8	3.109	0.182	73.2	109 110 331 332	53 2109
5681	8.9	18 35 55.26	+1.3443	−0.0001	+ 52 36 43.4	+3.130	+0.192	71.6	103 107	52 2257
5682	8.0	36 0.30	1.3680	0.0000	52 13 53.0	3.138	0.196	71.6	111 112	52 2258
5683	7.2	36 4.96	1.1773	−0.0008	55 7 50.4	3.144	0.168	74.7	333 334	55 2099
5684	8.7	36 14.89	1.4909	+0.0004	50 8 27.9	3.159	0.213	73.3	9 obs. [8]	50 2636
5685	7.9	36 44.16	1.3318	−0.0002	52 49 37.4	3.201	0.190	71.6	111 112	52 2260
5686	8.8	18 36 56.01	+1 4439	+0.0002	+ 50 58 44.2	+3.218	+0.206	71.7	113 114	50 2639
5687	9.1	36 57.43	1.4942	+0.0004	50 5 48.2	3.220	0.214	80.3	108 822 823	50 2640
5688	5.5	37 0.48	1.3785	−0.0001	52 4 44.8	3.224	0.197	71.6	103 107	52 2263
5689	8.2	37 12.19	1.3080	−0.0004	53 12 31.1	3.241	0.187	73.2	109 110 331 332	53 2113
5690	8.8	37 33.80	1.4610	+0.0002	50 41 44.8	3.272	0.209	71.6	101 102	50 2645
5691	8.7	18 37 52.83	+1.2624	−0.0006	+ 53 55 16.5	+3.300	+0.180	71.6	109 110 113 114	53 2115
5692	8.8	38 0.88	1.2453	−0.0007	54 10 49.8	3.311	0.178	77.9	7 obs. [9]	54 2023
5693	7.8	38 7.55	1.4675	+0.0002	50 35 36.2	3.321	0.210	74.6	5 obs. [10]	50 2647
5694	9.2	38 12.26	1.2646	−0.0006	53 53 40.2	3.328	0.180	74.7	331 332	53 2117
5695	8.1	38 30.43	1.2032	−0.0010	54 48 22.8	3.354	0.171	74.7	333 334	54 2024
5696	9.0	18 38 40.86	+1.3563	−0.0003	+ 52 28 26.8	+3.369	+0.193	71.6	103 107	52 2268
5697	8.0	38 44.40	1.4445	+0.0001	51 0 15.2	3.374	0.206	71.6	101 102	50 2651
5698	9.0	38 47.86	1.2772	−0.0006	53 42 54.7	3.379	0.182	71.7	113 114	53 2119
5699	9.0	39 1.34	1.4909	+0.0002	50 11 57.4	3.398	0.213	71.6	104 105	50 2652
5700	9.0	39 7.57	1.5013	+0.0002	50 0 50.6	3.407	0.214	81.6	669 670 817 823	49 2846

[1] Z. 109 110 333 334 426 427
[2] Z. 101 102 106 329 330
[3] Z. 103 107 817 822 824
[4] Z. 333 334 426 427 822 823
[5] Z. 109 110 331 332 422 423
[6] Z. 111 112 326 327 328 329 330
[7] Z. 104 105 326 327 328
[8] Z. 101 104 105 106 326 327 328 329 330
[9] Z. 111 112 567 568 569 817 822
[10] Z. 326 327 328 329 330

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5701	8.8	18h 39m 15.s19	+1.s3064	−0.s0005	+ 53° 16′ 29.″8	+3.″418	+0.″186	71.6	109 110	53° 2120
5702	8.5	39 36.94	1.3232	−0.0005	53 1 16.0	3.449	0.188	74.7	328 331 332	53 2122
5703	8.8	39 58.32	1.2857	−0.0007	53 36 35.8	3.480	0.183	73.9	113 114 327 424 425	53 2123
5704	9.3	40 8.30	1.2226	−0.0010	54 33 29.3	3.494	0.174	81.0 79.9	329 330 817 880 881α	54 2027
5705	8.2	40 11.38	1.4766	+0.0001	50 28 36.0	3.499	0.210	71.6	101 102	50 2653
5706	9.2	18 40 14.00	+1.2109	−0.0011	+ 54 43 52.6	+3.503	+0.172	74.7	331 332	54 2030
5707	9.3	40 20.18[1]	1.2205	−0.0011	54 35 36.6	3.511	0.174	85.6 85.1	822δ 880α 881	[54 2031]
5708	8.4	40 35.04	1.3057	−0.0006	53 18 54.0	3.533	0.186	79.4	109 110 822 823 824	53 2125
5709	9.4	40 36.84	1.4172	−0.0002	51 30 32.8	3.535	0.202	71.6	103 107	51 2416
5710	9.1	40 37.63	1.4309	−0.0001	51 16 42.4	3.536	0.204	78.0	108 326 328 817 823	51 2417
5711	6.2	18 40 49.34	+1.2781	−0.0008	+ 53 44 39.8	+3.553	+0.182	71.7	113 114	53 2126
5712	8.7	41 19.48	1.3174	−0.0006	53 8 52.5	3.596	0.187	73.0	111 112 424	53 2127
5713	8.8	41 33.17	1.4238	−0.0002	51 25 10.0	3.616	0.203	71.6	103 107	51 2418
5714	8.7	41 48.56	1.1855	−0.0014	55 7 45.6	3.638	0.168	74.7	333 334	55 2111
5715	8.7	41 50.83	1.3969	−0.0003	51 52 39.9	3.641	0.199	74.6	326 327 328	51 2419
5716	9.1	18 41 56.89	+1.4559	−0.0001	+ 50 52 39.9	+3.650	+0.207	71.6	101 104 105	50 2659
5717	9.2	41 56.94	1.4381	−0.0001	51 11 5.2	3.650	0.205	74.7	331 332	51 2421
5718	8.8	42 11.62	1.2050	−0.0013	54 51 31.2	3.671	0.171	74.7	329 330	54 2033
5719	8.8	42 18.82	1.3406	−0.0007	52 48 11.1	3.682	0.190	73.7	113 114 424 425	52 2275
5720	6.6	42 24.00	1.2117	−0.0013	54 45 56.0	3.689	0.172	74.6	111 112 560 561	54 2034
5721	8.8	18 42 49.08	+1.5140	+0.0001	+ 49 52 0.4	+3.725	+0.215	75.0	333 334 429	49 2863
5722	9.2	43 30.47	1.3633	−0.0006	52 27 57.2	3.784	0.194	74.7	7 obs. [2]	52 2277
5723	8.8	43 35.97	1.4183	−0.0004	51 33 32.7	3.792	0.201	77.3	6 obs. [3]	51 2424
5724	9 2	43 50.58	1.2563	−0.0012	54 8 25.9	3.813	0.178	75.6	6 obs. [4]	54 2036
5725	8.7	43 54.84	1.3656	−0.0006	52 26 19.8	3.819	0.194	71.7	113 114	52 2279
5726	9.0	18 43 54.92	+1.4824	−0.0001	+ 50 27 35.1	+3.819	+0.210	71.6	101 102	50 2666
5727	6.0	43 55.61	1.3399	−0.0007	52 51 4.0	3.820	0.190	75.7	422 423	52 2280
5728	9.0	44 3.73	1.2561	−0.0012	54 8 53.6	3.832	0.178	75.7	426 427 428 429	54 2037
5729	9.1	44 6.56	1.2968	−0.0010	53 31 53.0	3.836	0.184	71.6	109 110	53 2133
5730	9.0	44 25.95	1.2803	−0.0011	53 47 28.4	3.864	0.182	75.6	424 425	53 2135
5731	7.9	18 44 29.35	+1.2870	−0.0011	+ 53 41 25.7	+3.868	+0.182	74.6	326 327 328 331 332	53 2136
5732	8.4	44 52.97	1.3153	−0.0009	53 15 44.0	3.902	0.186	80.3	111 817 820	53 2137
5733	8.7	44 57.44	1.3283	−0.0009	53 3 35.6	3.909	0.188	74.4	114 422 423	53 2138
5734	9.0	45 5.42	1.2764	−0.0012	53 52 0 3	3.920	0.181	73.3	109 110 113 426 427	53 2139
5735	8.6	45 21.91	1.4218	−0.0004	51 32 33.6	3.944	0.202	72.6	6 obs. [5]	51 2430
5736	9.0	18 45 42.04	+1.5137	−0.0001	+ 49 56 31.6	+3.972	+0.215	75.2	333 334 428 429	49 2874
5737	9.1	45 49.55	1.4727	−0.0002	50 40 35.0	3.983	0.209	74.1	7 obs. [6]	50 2671
5738	8.9	46 20.38	1.3640	−0.0008	52 31 19.3	4.027	0.193	73.7	7 obs. [7]	52 2283
5739	8.6	46 58.40	1.2488	−0.0015	54 19 35.1	4.082	0.176	74.9	111 426 427 428 429	54 2041
5740	9.0	47 0.12	1.1998	−0.0018	55 2 40.2	4.084	0.170	74.7	333 334	55 2118
5741	9.2	18 47 0.22	+1.3156	−0.0011	+ 53 18 33.6	+4.084	+0.186	73.7	109 335 336	53 2144
5742	7.8	47 20.35	1.4565	−0.0004	50 59 52.2	4.113	0.206	73.7	101 102 424 425	50 2674
5743	8.8	47 23.62	1.4453	−0.0004	51 11 33.3	4.118	0.204	73.2	103 107 331 332	51 2437
5744	9.1	47 23.67	1.4802	−0.0003	50 35 2.6	4.118	0.210	80.3	108 817 820	50 2676
5745	8.6	47 27.62	1.4711	−0.0003	50 44 46.4	4.123	0.208	74.6	327 328	50 2677
5746	8.4	18 47 36.72	+1.4144	−0.0006	+ 51 43 22.5	+4.136	+0.200	74.4	117 330 422 423	51 2438
5747	9.0	47 37.69	1.4881	−0.0003	50 27 2.8	4.138	0.211	71.6	104 105	50 2678
5748	6.7	47 44.08	1.2617	−0.0015	54 9 13.1	4.147	0.178	74.5	111 333 334 426 427	54 2042
5749	8.8	47 54.91	1.3554	−0.0010	52 42 1.0	4.162	0.192	73.2	113 114 335 336	52 2288
5750	9.0	48 13.92	1.3560	−0.0010	52 41 57.8	4.189	0.192	71.7	113 114	52 2289

[1] [21.s63] 20.s29 20.s08

[2] Z. 326 327 328 329 330 331 332

[3] Z. 103 107 424 425 817 820

[4] Z. 111 426 427 429 560 561

[5] Z. 103 104 105 107 329 330

[6] Z. 101 102 326 327 328 424 425

[7] Z. 111 113 114 331 332 422 423

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5751	9.0	$18^h\ 48^m\ 19^s.21$	$+1^s.3895$	$-0^s.0008$	$+\ 52°\ 9'\ 19''.6$	$+4''.197$	$+0''.196$	71.6	103 107	52° 2290
5752	8.0	48 24.13	1.4628	0.0004	50 54 52.6	4.204	0.207	71.6	101 102	50 2680
5753	8.4	48 26.48	1.4183	0.0006	51 40 41.8	4.207	0.200	74.7	331 332	51 2440
5754	9.1	48 29.49	1.2774	0.0014	53 56 4.6	4.212	0.180	77.6 78.1	109 110 429α 817 820	53 2147
5755	8.9	48 37.73	1.4518	0.0005	51 6 43.5	4.223	0.205	75.4	330 422 423	51 2441
5756	6.0	18 48 47.02	+1.3497	−0.0010	+ 52 48 52.8	+4.236	+0.190	74.7	335 336	52 2294
5757	8.8	48 49.01	1.4691	0.0004	50 48 56.8	4.239	0.208	74.6	326 327 328	50 2681
5758	8.8	48 54.52	1.2094	0.0019	54 57 14.0	4.247	0.171	74.5	111 333 334 426 427	54 2046
5759	7.5	49 5.66	1.3440	0 0012	52 54 51.6	4.263	0.190	71.7	113 114	52 2295
5760	8.5	49 7.76	1.4489	0.0005	51 10 32.1	4.266	0.205	82.3	423 880 882	51 2444
5761	8.8	18 49 16.62	+1.4476	−0.0006	+ 51 12 8.2	+4.279	+0.204	80.3 79.3	6 obs. [1]	51 2446
5762	8.6	49 18.76	1.2239	0.0018	54 45 12.5	4.282	0.173	77.0	483 484 485 560 561	54 2047
5763	8.0	49 25.50	1.4063	0.0008	51 54 22.8	4.291	0.198	74.7	331 332	51 2447
5764	9.4	49 27.32	1.3086	0.0013	53 28 47.8	4.294	0.185	74.7	335 336	53 2149
5765	8.6	49 36.47	1.2635	0.0016	54 10 28.2	4.307	0.178	75.7	428 429	54 2048
5766	9.0	18 49 39.40	+1.2016	−0.0020	+ 55 5 9.1	+4.311	+0.169	74.7	333 334	55 2123
5767	9.0	49 40.08	1.4354	0.0006	51 25 14.4	4.312	0.202	75.9	117 330 562 564 565	51 2449
5768	8.9	49 48.12	1.3946	0.0009	52 6 37.7	4.324	0.197	71.6	103 107 113 114	52 2296
5769	9.1	49 48.24	1.4349	0.0007	51 26 5.4	4.324	0.202	75.4	326 327 328 562	51 2450
5770	4.8	50 7.81	1.4860	0.0004	50 33 12.4	4.352	0.210	73.2 73.6	101 102 104α 424 425	50 2686
5771	7.8	18 50 10.32	+1.4890	−0.0004	+ 50 30 8.1	+4.355	+0.210	78.1	104 105 817 820	50 2687
5772	8.5	50 19.15	1.2272	0.0019	54 43 52.8	4.368	0.173	76.0 76.9	9 obs. [2]	54 2050
5773	8.6	50 29.50	1.2274	0.0019	54 44 1.4	4.382	0.173	77.8	10 obs. [3]	54 2051
5774	8.2	50 38.22	1.5219	0.0003	49 55 22.6	4.395	0.215	74.7	333 334	49 2892
5775	8.4	50 43.69	1.2251	0.0020	54 46 23.2	4.403	0.172	75.7	428 429	54 2053
5776	9.1	18 50 45.72	+1.4421	−0.0007	+ 51 20 9.4	+4.406	+0.203	74.7	329 330	51 2452
5777	9.2	50 46.30	1.3128	0.0014	53 27 3.2	4.406	0.185	73.2	109 110 335 336	53 2151
5778	9.7	50 51.24	1.4314	0.0007	51 31 16.6	4.414	0.202	74.6	326 327 328	51 2454
5779	9.3	51 11.99[4]	1.4948	0.0004	50 25 38.6	4.443	0.211	71.6	101 102 108	50 2688
5780	8.5	51 17.15	1.4952	0.0004	50 25 22.2	4.450	0.211	74.5	108 331 332 424 425	50 2689
5781	9.0	18 51 22.90	+1.4199	−0.0008	+ 51 43 50.8	+4.458	+0.200	75.7	422 423	51 2456
5782	7.6	51 38.34	1.3714	0.0011	52 32 27.8	4.480	0.193	71.6	103 107	52 2301
5783	7.7	51 51.46	1.4550	0.0007	51 8 40.8	4.499	0.205	74.6	326 327 328	51 2459
5784	8.6	51 58.26	1.2163	0.0021	54 56 3.0	4.509	0.171	74.0	6 obs. [5]	54 2055
5785	8.8	52 1.75	1.3431	0.0013	53 0 25.9	4.514	0.189	72.9	111 113 114 335 336	52 2302
5786	8.8	18 52 3.97	+1.4782	−0.0006	+ 50 44 45.4	+4.517	+0 208	71.6	101 102	50 2691
5787	8.8	52 42.87	1.4991	0.0005	50 23 33.4	4.572	0.211	73.9	104 105 330 424 425	50 2693
5788	8.9	52 52.56	1.2476	0.0020	54 29 58.5	4.586	0.175	77.3	6 obs. [6]	54 2056
5789	9.3	52 54.42	1.3756	0.0012	52 30 29.1	4.588	0.193	74.4	103 326 327 422 423	52 2305
5790	9.4	53 2.84	1.2652	0.0019	54 14 31.9	4.600	0.178	71.7	113 114	54 2057
5791	9.4	18 53 23.30	+1.2514	−0.0020	+ 54 27 27.0	+4.630	+0.176	74.7	333 334	54 2059
5792	8.9	53 23.47	1.2779	0.0018	54 3 31.3	4.630	0.180	73.7	111 331 332	54 2058
5793	8.9	53 27.48	1.2057	0.0023	55 7 42.2	4.635	0.169	82.5	7 obs. [7]	55 2129
5794	8.8	53 28.98	1.2456	0.0021	54 32 45.2	4.638	0.175	75.7	428 429	54 2060
5795	9.4	53 48.52	1.2065	0.0024	55 7 36.4	4.665	0.169	85.6	881 882	— —
5796	9.0	18 53 52.27	+1.2893	−0.0018	+ 53 53 58.4	+4.671	+0.181	73.6	109 110 424 425	53 2155
5797	8.1	54 1.05	1.4474	0.0008	51 20 13.7	4.683	0.203	78.0 78.9	108 329α 330 817 820	51 2463
5798	8.0	54 5.19	1.4349	0.0009	51 33 14.8	4.689	0.201	74.2	6 obs. [8]	51 2464
5799	8.9	54 19.44	1.2617	0.0020	54 19 50.4	4.709	0.177	71.7	111 113 114	54 2062
5800	8.4	54 27.32	1.2147	0.0024	55 1 36.2	4.720	0.170	75.7	426 427 428 429	55 2130

[1] Z. 422 424 425 817 820 880α
[2] Z. 111 426 427 483 484 485 560α 561 823∂
[3] Z. 111 426 427 483 484 485 560α 561α 822 823
[4] 11.92 11.77 12.27
[5] 109 110 333 334 426 427
[6] Z. 109 110 428 429 817 820
[7] Z. 426 427 817 820 880 881 882
[8] Z. 117 326 327 328 335 336

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5801	8.4	18h 54m 32.08	+1.2991	−0.0018	+ 53°46′ 1.6	+4.727	+0.182	74.7	333 334	53°2157
5802	8.4	54 37.53	1.4742	0.0008	50 53 24.8	4.735	0.207	73.6	101 102 424 425	50 2699
5803	9.0	54 58.34	1.2389	0.0022	54 41 16.2	4.764	0.174	73.7	111 331 332	54 2063
5804	8.8	55 14.86	1.3783	0.0013	52 31 58.0	4.788	0.193	71.7	113 114	52 2311
5805	9.2	55 33.90	1.3278	0.0017	53 21 2.1	4.815	0.186	74.5	109 333 334 426 427	53 2161
5806	9.7	18 55 35.42	+1.4546	−0.0009	+ 51 15 34.1	+4.817	+0.204	74.6	326 327 328	51 2469
5807	8.6	55 35.99	1.4107	0.0012	52 0 25.6	4.818	0.198	73.9	105 330 335 336	51 2471
5808	8.8	55 37.39	1.3549	0.0015	52 55 17.9	4.820	0.190	80.2	424 425 820 822	52 2312
5809	8.6	55 45.39	1.4308	0.0010	51 40 23.6	4.831	0.200	81.6	423 822 823	51 2472
5810	6.8	55 53.08	1.4907	0.0007	50 38 9.6	4.842	0.209	71.6	101 102	50 2705
5811	9.2	18 55 58.24[1]	+1.3542	−0.0015	+ 52 56 38.6	+4.849	+0.190	83.1	425 879 881 882	52 2316
5812	8.0	56 6.70	1.2405	0.0023	54 41 48.2	4.861	0.174	74.5	111 331 332 426 427	54 2067
5813	9.0	56 14.41	1.3568	0.0015	52 54 37.0	4.872	0.190	77.0	6 obs. [2]	52 2317
5814	8.2	56 45.17	1.2441	0.0024	54 39 44.0	4.916	0.174	74.0	6 obs. [3]	54 2070
5815	5.2	57 5.03	1.5084	0.0007	50 21 24.9	4.944	0.211	74.0	6 obs. [4]	50 2708
5816	9.0	18 57 7.34	+1.4495	−0.0010	+ 51 23 45.2	+4.947	+0.203	73.9	117 326 327 328	51 2474
5817	8.3	57 27.22	1.2579	0.0023	54 28 43.1	4.975	0.176	73.7	111 331 332	54 2073
5818	8.4	57 34.64	1.2238	0.0026	54 59 5.8	4.985	0.171	74.7	333 334	54 2074
5819	8.6	57 39.18	1.4093	0.0013	52 5 36.3	4.992	0.197	73.2	113 114 335 336	52 2320
5820	8.9	57 54.28	1.3470	0.0017	53 7 1.6	5.013	0.188	75.6	422 423	[53 2166]
5821	8.9	18 57 58.37	+1.4650	−0.0010	+ 51 9 9.1	+5.019	+0.205	80.3	102 822 823	51 2479
5822	8.7	58 1.73	1.3184	0.0019	53 34 22.6	5.024	0.184	71.6	109 110	53 2167
5823	9.1	58 10.14	1.4719	0.0010	51 2 24.2	5.036	0.206	73.8	105 326 327 328	51 2481
5824	8.8	58 10.19	1.3546	0.0017	53 0 14.4	5.036	0.189	75.7	426 427	52 2321
5825	8.8	58 16.00	1.3484	0.0017	53 6 27.8	5.044	0.188	75.7	422 423	53 2168
5826	9.4	18 58 16.90	+1.4254	−0.0012	+ 51 50 35.6	+5.045	+0.199	74.7	329 330	51 2482
5827	8.6	58 31.68	1.3396	0.0018	53 15 19.4	5.066	0.187	75.7	424 425	53 2169
5828	8.4	58 34.49	1.2954	0.0021	53 56 47.6	5.070	0.181	74.7	333 334	53 2170
5829	9.2	58 55.23	1.3794	0.0016	52 37 35.6	5.099	0.192	71.7	113 114	52 2323
5830	6.5	59 10.65	1.4130	0.0014	52 4 49.5	5.121	0.197	74.1	118 329 330 335 336	52 2326
5831	9.0	18 59 29.04	+1.4468	−0.0012	+ 51 30 58.2	+5.147	+0.202	75.7	424 425	[51 2486]
5832	9.0	59 36.13	1.4919	0.0009	50 43 57.8	5.157	0.208	75.7	426 427	[50 2714]
5833	8.6	59 40.22	1.5061	0.0008	50 28 51.2	5.162	0.210	71.6	101 102	50 2715
5834	9.0	59 49.39[5]	1.2626	0.0025	54 28 57.3	5.176	0.176	78.6	331 332 822 823	54 2078
5835	8.7	59 52.46	1.5298	0.0007	50 3 31.0	5.180	0.214	81.6	423 817 820	50 2716
5836	8.6	18 59 56.84	+1.4542	−0.0012	+ 51 24 14.2	+5.186	+0.203	73.9	117 326 327 328	51 2488
5837	8.4	19 0 16.89	1.4592	0.0012	51 19 41.6	5.214	0.203	85.6	875 876	51 2489
5838	8.6	0 19.14	1.3213	0.0021	53 36 1.2	5.217	0.184	71.6	109 110	53 2175
5839	8.6	0 24.19	1.4957	0.0009	50 41 28.8	5.224	0.208	75.7	426 427	50 2718
5840	8.8	0 24.90	1.4049	0.0015	52 15 17.8	5.226	0.196	71.7	113 114	52 2330
5841	9.4	19 0 31.80	+1.4514	−0.0012	+ 51 28 16.1	+5.235	+0.202	77.3	484 485 561 566 567	51 2490
5842	9.0	0 39.38	1.5305	0.0008	50 4 18.2	5.246	0.213	73.6	102 422	50 2719
5843	8.7	0 47.57	1.3644	0.0018	52 55 49.0	5.257	0.190	74.1	118 329 330 335 336	52 2332
5844	8.9	0 48.83	1.4164	0.0014	52 4 34.1	5.259	0.197	79.3	7 obs. [6]	52 2333
5845	9.2	0 57.83	1.4421	0.0013	51 38 43.5	5.272	0.201	73.8	105 326 327 328	51 2492
5846	7.5	19 1 14.78	+1.2842	−0.0024	+ 54 12 7.9	+5.296	+0.178	78.0	111 331 332 817 820	54 2080
5847	9.1	1 19.42	1.3706	0.0018	52 50 53.6	5.302	0.190	73.7	113 114 424 425	52 2334
5848	9.4	1 48.17	1.2451	0.0028	54 48 21.7	5.343	0.173	77.2	484 485 561 562	54 2081
5849	8.3	1 53.16	1.3887	0.0017	52 34 14.3	5.350	0.193	78.1	116 335 336 817 820	52 2336
5850	9.4	1 54.54	1.2450	0.0028	54 48 38.3	5.352	0.173	77.0	482 483 561	[54 2082]

[1] 58.15 58.46 58.21 57.96 [2] Z. 113 114 335 336 817 820 [3] Z. 109 110 333 334 426 427

[4] Z. 101 102 329 330 424 425 [5] 49.60 49.54 49.12 49.30 [6] Z. 482 483 562 564 565 817 820

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5851	9.0	19h 2m 5.57	+1.3542	−0.0020	+ 53° 8′ 12.5	+5.367	+0.188	85.6	875α 876 879 880 883	53°2177
5852	9.0	2 5.61	1.3526	0.0020	53 9 47.5	5.367	0.188	76.0	109 110 428 429 875	53 2179
5853	5.9	2 6.58	1.3500	0.0020	53 12 20.0	5.369	0.187	75.7	426 427	53 2178
5854	8.8	2 9.94	1.2202	0.0030	55 10 57.1	5.373	0.169	74.7	333 334	55 2143
5855	8.4	2 14.98	1.2281	0.0030	55 4 10.8	5.380	0.170	75.7	430 431	55 2144
5856	8.5	19 2 19.39	+1.3800	−0.0018	+ 52 43 44.9	+5.386	+0.192	73.3	111 113 114 424 425	52 2338
5857	9.3	2 31.07	1 4042	0.0016	52 20 8.3	5.403	0.195	73.9	8 obs. [1]	52 2340
5858	8.9	2 51.64[2]	1.4331	0.0015	51 51 44.3	5.432	0.199	80.3	102 817 820	51 2501
5859	8.9	3 11.29	1.3567	0.0020	53 8 4.8	5.459	0.188	73.6	109 110 428 429	53 2181
5860	8.8	3 26.10	1.3276	0.0023	53 36 12.8	5.480	0.184	76.5	7 obs. [3]	53 2182
5861	8.5	19 3 38.04	+1.3271	−0.0023	+ 53 37 7.0	+5.497	+0.184	76.2 77.1	6 obs. [4]	53 2183
5862	8.0	4 3.89	1.4590	0.0014	51 27 39.0	5.533	0.202	73.2	101 102 331 332	51 2506
5863	9.0	4 14.81	1.4369	0.0015	51 50 46.6	5.548	0.199	74.4	117 428 429	51 2510
5864	7.9	4 15.12	1.4753	0.0013	51 10 58.2	5.549	0.204	74.6	329 330	51 2507
5865	8.8	4 21.80	1.5156	0.0010	50 28 12.1	5.558	0.210	73.6	105 327 328	50 2729
5866	8.6	19 4 23.69	+1.3268	−0.0023	+ 53 38 59.6	+5.561	+0.184	71.6	109 110	53 2185
5867	8.6	4 24.18	1.3715	0.0020	52 56 14.2	5.562	0.190	71.7	113 114	52 2343
5868	8.4	4 24.70	1.2917	0.0026	54 11 34.8	5.562	0.179	74.5	111 333 334 430 431	54 2087
5869	9.0	4 33.98	1.5003	0.0011	50 45 8.4	5.575	0.208	75.7	426 427	50 2731
5870	8.4	4 53.32	1 4349	0.0016	51 54 11.5	5.602	0.198	72.8	101 102 108 329 330	51 2512
5871	8.1	19 4 56.59	+1.3821	−0.0020	+ 52 47 2.4	+5.607	+0.191	73.7	118 331 332	52 2346
5872	9.2	4 59.94	1.3414	0.0023	53 26 25.1	5.612	0.185	75.4	335 336 485	53 2186
5873	8.6	5 2.13	1.5365	0.0009	50 6 49.4	5.615	0.213	77.0	429 560 561	50 2732
5874	9.5	5 16.24	1.3925	0.0019	52 37 28.7	5.634	0.192	71.7	113 114	52 2348
5875	7.9	5 18.88	1.5402	0.0009	50 3 21.6	5.638	0.213	74.9	326 327 328 428	50 2733
5876	7.4	19 5 21.79	+1.5344	−0.0010	+ 50 9 47.7	+5.642	+0.212	80.3	116 820 824	50 2734
5877	9.3	5 22.38	1.3950	0.0019	52 35 17.0	5.643	0.193	81.6	431 822 823	52 2349
5878	8.6	5 30.13	1.3136	0.0025	53 53 37.9	5.654	0.182	71.6	109 110	53 2187
5879	5.0	5 30.20	1.4170	0.0017	52 13 37.4	5.654	0.196	75.7	426 427	52 2350
5880	8.1	5 32.22	1.2269	0.0032	55 11 51.9	5.657	0.169	85.6	881 882	55 2151
5881	8.0	19 5 34.51	+1.3436	−0.0023	+ 53 25 37.0	+5.660	+0.186	78.5	6 obs. [5]	53 2188
5882	9.2	5 35.09	1.4348	0.0016	51 55 41.7	5.661	0.198	82.0	7 obs. [6]	51 2515
5883	7.8	5 36.96	1.3864	0.0020	52 44 14.0	5.664	0.192	76.0	6 obs. [7]	52 2351
5884	8.9	5 43.60	1.2648	0.0030	54 38 42.0	5.673	0.174	73.7	111 333 334	54 2088
5885	7.1	5 46.42	1.2321	0.0032	55 7 46.7	5.677	0.170	77.6	560 561 564 565	55 2152
5886	9.5	19 5 47.02	+1.2320	−0.0032	+ 55 7 52.3	+5.678	+0.170	77.7	564 565	55 2152
5887	8.8	5 49.25	1.4353	0.0016	51 55 43.9	5.681	0.198	81.3	6 obs. [8]	51 2516
5888	9.0	5 50.10	1.3333	0.0024	53 35 54.1	5.682	0.184	83.0	569 876 883	53 2189
5889	9.0	5 53.74	1.3077	0.0026	53 59 58.2	5.687	0.180	74.7	335 336	53 2190
5890	8.2	6 16.77	1.2492	0.0031	54 53 48.8	5.719	0.172	75.7	430 431	54 2089
5891	8.3	19 6 19.90	+1.4091	−0.0018	+ 52 23 14.6	+5.724	+0.194	78.2 80.3	113α 114 820 823	52 2354
5892	8.9	6 25.69	1.4267	0.0017	52 5 44.7	5.732	0.197	74.4	118 426 427	52 2355
5893	8.7	6 34.82	1.3340	0.0024	53 36 45.2	5.744	0.184	76.4	109 333 334 822	53 2191
5894	9.0	6 47.51	1.5014	0.0012	50 48 43.0	5.762	0.207	73.9	117 326 327 328	50 2735
5895	9.0	6 51.11	1.5340	0.0010	50 13 25.6	5.767	0.212	71.6	105 116	50 2736
5896	8.8	19 6 53.36[9]	+1.4798	−0.0014	+ 51 11 55.8	+5.770	+0.204	73.2	101 102 331 332	51 2518
5897	9.3	7 10.87	1.3409	0.0024	53 31 33.7	5.795	0.185	78.7	334 335 336 820 823	53 2195
5898	8.8	7 33.93	1.2687	0.0031	54 39 6.9	5.827	0.174	71.7	111 113 114	54 2093
5899	8.4	7 39.42	1.5198	0.0012	50 30 50.8	5.834	0.210	74.6	329 330	50 2738
5900	8.8	7 47.42	1.5317	0.0011	50 18 5.1	5.846	0.211	73.9	116 326 327 328	50 2739

[1] Z. 117 118 327 328 329 330 331 332
[2] 51.37 51.68 51.86
[3] Z. 113 114 116 430 431 817 820
[4] Z. 116α 335 336 430 431 817
[5] Z. 484 485 566 567 568 820
[6] Z. 329 330 822 823 824 875 879
[7] Z. 118 428 482 483 562 563
[8] Z. 106 331 824 875 879 880
[9] 53.38 53.12 53.57 53.39

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5901	8.8	19h 7m 53s.74	+1s.4500	−0s.0016	+ 51° 45′ 15″.8	+5″.854	+0″.200	71.6	101 102	51° 2524
5902	8.4	7 54.08	1.5550	0.0009	49 52 33.6	5.855	0.214	75.7	428 429	49 2952
5903	8.4	7 54.84	1.2948	0.0029	54 16 11.4	5.856	0.179	75.7	426 427	54 2095
5904	8.3	7 54.99	1.4844	0.0014	51 9 18.3	5.856	0.205	80.2	430 431 822 823	51 2525
5905	9.1	7 57.77	1.3403	0.0025	53 33 49.5	5.860	0.184	77.4	5 obs. [1]	53 2196
5906	8.8	19 7 58.45	+1.2881	−0.0029	+ 54 22 23.7	+5.861	+0.177	77.0	6 obs. [2]	54 2096
5907	8.6	8 6.94	1.2350	0.0034	55 10 15.0	5.873	0.170	77.6	562 563	55 2158
5908	7.6	8 12.58	1.4470	0.0017	51 48 57.0	5.881	0.199	74.7	331 332	51 2527
5909	9.2	8 14.70	1.3493	0.0024	53 25 51.5	5.884	0.186	74.7	334 335 336	53 2199
5910	8.8	8 25.94	1.3830	0.0022	52 53 41.2	5.899	0.190	74.4	118 428 429	52 2362
5911	9.3	19 8 26.35	+1.2565	−0.0032	+ 54 51 56.5	+5.900	+0.173	75.0	111 430 561	54 2098
5912	8.5	8 33.96	1.2478	0.0033	54 59 52.2	5.911	0.171	79.6	5 obs. [3]	54 2100
5913	8.3	8 51.13	1.4124	0.0020	52 25 34.9	5.935	0.194	73.2	6 obs. [4]	52 2365
5914	9.0	9 35.60	1.3332	0.0027	53 44 10.7	5.996	0.183	71.6	109 110	53 2201
5915	8.1	9 48.44	1.2441	0.0035	55 5 53.4	6.014	0.170	75.3	5 obs. [5]	55 2164
5916	9.2	19 10 3.55	+1.3745	−0.0024	+ 53 5 41.0	+6.035	+0.189	74.7	331 332	53 2203
5917	8.8	10 7.86	1.5026	0.0014	50 55 0.6	6.041	0.206	71.7	113 114	50 2743
5918	9.2	10 9.12	1.3380	0.0027	53 40 50.0	6.043	0.184	74.7	335 336	53 2204
5919	8.5	10 15.48	1.2544	0.0034	54 57 46.4	6.052	0.172	73.0	111 112 428	54 2103
5920	8.9	10 24.06	1.2589	0.0034	54 54 6.9	6.064	0.172	76.7	8 obs. [6]	54 2104
5921	8.2	19 10 29.33	+1.5158	−0.0013	+ 50 41 38.5	+6.071	+0.208	71.7	115 116	50 2744
5922	8.9	10 32.17	1.2593	0.0035	54 54 3.0	6.075	0.171	76.8	7 obs. [7]	54 2105
5923	9.1	10 32.86	1.3348	0.0027	53 44 48.2	6.076	0.183	80.3	110 820 822	53 2205
5924	9.4	10 40.98	1.3304	0.0028	53 49 18.7	6.087	0.182	74.7	333 334	53 2206
5925	8.0	10 48.50	1.3823	0.0024	52 59 46.8	6.098	0.189	71.7	113 114	52 2371
5926	9.0	19 10 52.81	+1.2425	−0.0036	+ 55 9 42.4	+6.104	+0.170	85.6	880 884	55 2167
5927	9.0	10 59.81	1.4899	0.0015	51 10 37.6	6.114	0.204	73.7	108 117 428 429	51 2539
5928	9.2	11 3.42	1.4165	0.0021	52 26 25.6	6.118	0.194	75.7	118 430 562 563	52 2373
5929	9.1	11 5.98	1.2655	0.0034	54 49 43.8	6.122	0.173	71.6	111 112	54 2107
5930	8.8	11 21.44	1.2430	0.0036	55 10 12.4	6.144	0.170	76.2	334 565	[55 2169]
5931	8.7	19 11 37.28	+1.5053	−0.0014	+ 50 55 35.4	+6.166	+0.206	72.7	115 116 335	50 2748
5932	8.5	11 39.42	1.4055	0.0022	52 38 50.6	6.168	0.192	71.7	113 114	52 2376
5933	9.0	12 0.49	1.5405	0.0012	50 18 12.6	6.198	0.211	75.7	426 427	50 2750
5934	8.9	12 22.22	1.3278	0.0029	53 55 32.5	6.228	0.181	79.6	331 332 820 822	53 2211
5935	8.9	12 26.04	1.3019	0.0032	54 19 46.4	6.233	0.180	71.6	111 112	54 2109
5936	7.5	19 12 34.39	+1.2612	−0.0036	+ 54 56 59.3	+6.245	+0.172	76.3	5 obs. [8]	54 2110
5937	8.6	12 41.34	1.5270	0.0014	50 34 42.0	6.254	0.209	71.7	115 116	50 2752
5938	8.3	12 43.89	1.3005	0.0032	54 21 43.4	6.258	0.177	71.7	113 114	54 2112
5939	9.6	12 50.28	1.5232	0.0014	50 39 9.0	6.267	0.208	74.7	335 336	50 2753
5940	8.2	13 12.53	1.2768	0.0034	54 44 26.2	6.298	0.174	74.7	333 334	54 2113
5941	9.6	19 13 14.06	+1.2691	−0.0035	+ 54 51 26.3	+6.300	+0.173	77.7	5 obs. [9]	54 2114
5942	9.1	13 17.28	1.5436	0.0013	50 17 53.3	6.304	0.211	75.7	426 427	50 2757
5943	8.7	13 20.42	1.4946	0.0016	51 11 12.0	6.308	0.204	74.4	118 430 431	51 2541
5944	9.0	13 31.88	1.3661	0.0027	53 21 54.8	6.324	0.186	71.6	109 110	53 2215
5945	8.9	13 32.62	1.5374	0.0013	50 25 21.6	6.325	0.210	74.7	335 336	50 2759
5946	8.8	19 13 35.70	+1.5201	−0.0014	+ 50 44 22.2	+6.330	+0.208	71.7	113 114	50 2761
5947	8.7	13 36.44	1.5297	0.0014	50 33 56.4	6.331	0.209	71.7	115 116	50 2760
5948	8.9	13 52.78	1.4486	0.0020	52 0 36.2	6.353	0.198	73.7	108 117 428 429	51 2544
5949	8.1	14 10.44	1.2502	0.0038	55 10 30.7	6.378	0.170	74.7	333 334	55 2179
5950	4.0	14 12.83	1.3818	0.0026	53 8 18.6	6.381	0.188		Fund. Cat.	53 2216

[1] Z. 109 110 333 820 822
[2] Z. 482 483 484 485 560 561
[3] Z. 426 427 560 820 822
[4] Z. 113 114 117 326 327 328
[5] Z. 333 334 429 430 431
[6] Z. 426 427 482 483 484 485 560 561
[7] Z. 427 482 483 484 485 560 561
[8] Z. 428 429 482 483 486
[9] Z. 561 562 563 564 565

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
5951	7.3	19h 14m 25.91	+1.5009	−0.0016	+ 51° 7′ 9.1	+6.399	+0.205	78.5	5 obs. [1]	51°2548
5952	8.8	14 32.43	1.5488	0.0013	50 15 10.8	6.408	0.211	71.7	115 116	50 2766
5953	8.1	14 32.73	1.3242	0.0031	54 4 7.0	6.409	0.180	73.7	111 112 428 429	54 2118
5954	8.8	14 40.37	1.3898	0.0025	53 1 35.6	6.419	0.189	71.7	113 114	52 2386
5955	8.2	14 50.16	1.3343	0.0030	53 55 19.8	6.433	0.182	71.6	109 110	53 2218
5956	9.1	19 14 59.23	+1.5115	−0.0016	+ 50 57 5.0	+6.445	+0.206	74.7	335 336	50 2769
5957	7.4	15 14.84	1.5641	0.0012	49 59 54.0	6.467	0.213	74.7	333 334	49 2976
5958	9.1	15 18.51	1.4069	0.0024	52 46 15.1	6.472	0.191	75.7	426 427	52 2389
5959	8.3	15 22.94	1.5295	0.0015	50 38 36.6	6.478	0.208	78.2	115 116 820 822	50 2771
5960	8.7	15 23.09	1.4659	0.0019	51 46 23.4	6.478	0.199	74.4	118 430 431	51 2551
5961	8.2	19 15 24.13	+1.3793	−0.0027	+ 53 13 39.0	+6.480	+0.188	78.1	5 obs. [2]	53 2219
5962	9.0	15 32.99	1.3300	0.0031	54 1 8.8	6.492	0.181	77.4	486 568 569	53 2221
5963	7.9	15 39.22[8]	1.4524	0.0021	52 1 1.7	6.500	0.198	74.4	117 428 429	51 2552
5964	8.6	15 39.98	1.4034	0.0025	52 50 36.9	6.501	0.191	71.7	113 114	52 2390
5965	8.7	15 44.33	1.5297	0.0015	50 39 14.1	6.507	0.208	74.7 75.7	115α 116 570 571	50 2772
5966	7.9	19 15 47.70	+1.3485	−0.0030	+ 53 44 16.0	+6.512	+0.183	71.6	109 110	53 2223
5967	9.1	15 54.54	1.4920	0.0018	51 20 18.1	6.522	0.203	80.3	108 822 823	51 2553
5968	8.9	15 56.38	1.3894	0.0026	53 5 5.9	6.524	0.189	75.7	430 431	53 2224
5969	8.2	16 8.26	1.3591	0.0028	53 25 19.8	6.540	0.186	75.7	333 334 482 483	53 2225
5970	8.6	16 34.48	1.5417	0.0014	50 28 12.1	6.576	0.209	81.4	116 820 822 823	50 2777
5971	8.8	19 16 41.82	+1.4738	−0.0019	+ 51 41 25.1	+6.587	+0.200	74.7	335 336	51 2556
5972	9.1	16 42.21	1.5071	0.0017	51 6 9.6	6.587	0.205	73.7	118 331 332	51 2555
5973	9.1	16 48.48	1.4642	0.0020	51 51 41.4	6.596	0.199	75.7	428 429	51 2558
5974	8.7	16 49.38	1.4979	0.0018	51 16 20.0	6.597	0.203	75.7	426 427	51 2557
5975	7.0	16 50.88	1.3254	0.0032	54 8 37.0	6.599	0.180	71.6	111 112	54 2123
5976	8.1	19 17 2.02	+1.3895	−0.0027	+ 53 7 43.6	+6.614	+0.188	71.6	109 110	53 2227
5977	8.7	17 6.30	1.4838	0.0019	51 32 0.2	6.620	0.201	75.7	430 431	51 2559
5978	9.0	17 15.22	1.3787	0.0028	53 18 46.0	6.633	0.187	74.7	333 334	53 2228
5979	7.2	17 15.84	1.5630	0.0013	50 6 14.9	6.634	0.212	80.3	116 820 822	50 2784
5980	9.2	17 46.10	1.2999	0.0036	54 34 28.8	6.675	0.176	75.7	426 427 428 429	54 2125
5981	9.1	19 17 58.39	+1.4175	−0.0025	+ 52 42 18.6	+6.692	+0.192	73.4	7 obs. [4]	52 2397
5982	8.6	18 14.15	1.3350	0.0032	54 3 3.5	6.714	0.180	73.2	111 112 333 334	54 2128
5983	9.4	18 23.72	1.4917	0.0019	51 26 59.9	6.727	0.202	76.8	5 obs. [5]	51 2564
5984	6.8	18 34.60	1.4526	0.0022	52 8 14.0	6.742	0.196	71.7	115 116	52 2400
5985	8.4	18 51.74	1.4354	0.0024	52 26 35.5	6.765	0.194	71.7	113 114	52 2403
5986	8.7	19 19 3.68	+1.3627	−0.0030	+ 53 38 53.2	+6.782	+0.184	73.6	109 110 430 431	53 2229
5987	7.4	19 15.82	1.4693	0.0021	51 52 44.0	6.798	0.199	78.2	118 119 820 822	51 2572
5988	7.8	19 36.57	1.4158	0.0026	52 48 19.0	6.827	0.191	74.1	5 obs. [6]	52 2409
5989	8.4	19 49.24	1.5319	0.0016	50 47 30.2	6.844	0.207	71.7	115 116	50 2789
5990	8.7	19 51.92	1.3826	0.0029	53 21 43.6	6.848	0.186	74.7	333 334	53 2232
5991	9.2	19 20 1.56	+1.3730	−0.0030	+ 53 31 23.8	+6.861	+0.185	71.6	109 110	53 2233
5992	6.7	20 7.11	1.5738	0.0013	50 1 40.4	6.869	0.213	75.7	428 429	49 2994
5993	7.9	20 16.51	1.4460	0.0024	52 19 31.4	6.882	0.195	78.5	5 obs. [7]	52 2412
5994	7.2	20 16.74	1.2904	0.0039	54 49 32.0	6.882	0.174	71.6	111 112	54 2135
5995	8.5	20 19.06	1.4047	0.0027	53 1 12.2	6.885	0.189	78.0	6 obs. [8]	52 2413
5996	8.9	19 20 19.35	+1.4357	−0.0025	+ 52 30 8.6	+6.885	+0.194	84.6	820 823 824	52 2414
5997	9.0	20 41.75	1.4263	0.0026	52 40 37.8	6.916	0.192	71.7	113 114	52 2415
5998	8.9	20 45.90	1.3139	0.0036	54 29 14.9	6.922	0.177	71.7	115 116	54 2136
5999	9.2	20 57.78	1.5768	0.0014	50 0 37.6	6.938	0.213	74.7	333 334	49 2997
6000	9.0	21 10.56	1.3752	0.0031	53 32 18.9	6.956	0.185	73.6	109 110 430 431	53 2235

[1] Z. 118 426 427 820 822
[2] Z. 331 332 566 567 884
[3] 39.48 39.12 39.07
[4] Z. 113 114 117 331 332 335 336
[5] Z. 106 108 118 820 822
[6] Z. 113 331 332 335 336
[7] Z. 117 430 431 822 823
[8] Z. 331 332 335 336 822 823

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6001	7.0	19h 21m 16.s03	+1.s5783	−0.s0014	+ 49° 59′ 44.″9	+6.″963	+0.″213	75.2	333 334 428 429	49° 2999
6002	8.8	21 40.81	1.4563	0.0024	52 12 43.6	6.997	0.196	71.7	113 114	52 2420
6003	9.4	21 50.49	1.4156	0.0027	52 54 21.8	7.010	0.190	74.7	331 332 335 336	52 2421
6004	8.8	22 2.34	1.3400	0.0035	54 8 16.9	7.026	0.180	84.6	820 822	54 2139
6005	8.6	22 5.04	1.3372	0.0035	54 11 2.5	7.030	0.179	71.7	111 112 115	54 2140
6006	9.2	19 22 6.30	+1.4145	−0.0027	+ 52 56 14.6	+7.032	+0.190	78.1 76.2	5 obs. [1]	52 2422
6007	9.1	22 12.94	1.4129	0.0028	52 58 7.8	7.041	0.190	85.6	883 884α	52 2424
6008	7.6	22 14.44	1.2774	0.0041	55 6 25.0	7.043	0.171	74.7	333 334	55 2199
6009	8.4	22 20.30	1.3796	0.0031	53 31 10.7	7.051	0.185	71.6	109 110	53 2238
6010	9.2	22 22.93	1.3999	0.0029	53 11 26.0	7.054	0.188	77.3	486 562 563	53 2239
6011	8.4	19 22 28.71	+1.4618	−0.0024	+ 52 9 8.7	+7.062	+0.196	71.7	113 114	52 2425
6012	8.6	22 29.88	1.3308	0.0036	54 18 6.5	7.064	0.178	79.6	6 obs. [2]	54 2142
6013	7.2	22 36.16	1.5491	0.0016	50 36 8.6	7.072	0.208	71.7	118 119	50 2791
6014	9.0	22 44.69	1.5468	0.0016	50 39 1.2	7.084	0.208	75.7	428 429	50 2792
6015	8.3	22 53.91	1.5649	0.0015	50 19 20.2	7.097	0.210	80.0	564 565 820	50 2793
6016	9.0	19 23 2.96	+1.5189	−0.0019	+ 51 10 22.8	+7.109	+0.204	74.7	335 336	[51 2584]
6017	8.1	23 9.02	1.5433	0.0017	50 43 59.0	7.117	0.207	74.4	115 430 431	50 2794
6018	8.0	23 20.00	1.3117	0.0039	54 38 3.4	7.132	0.176	71.6	109 110	54 2146
6019	8.6	23 22.87	1.5884	0.0014	49 54 8.6	7.136	0.213	76.2	333 334 562 563	49 3011
6020	7.0	23 28.72	1.5892	0.0014	49 53 24.7	7.144	0.214	76.2	333 334 562 563	49 3012
6021	8.9	19 23 31.00	+1.5204	−0.0019	+ 51 10 1.3	+7.147	+0.204	73.5	5 obs. [3]	51 2588
6022	9.0	23 43.24	1 5850	0.0014	49 58 55.2	7.164	0.213	77.7	564 565	49 3014
6023	8.8	23 59.47	1.5530	0.0017	50 35 41.1	7.186	0.208	78.2	118 119 820 823	50 2796
6024	8.2	24 2.46	1.5770	0.0015	50 8 56.7	7.190	0.212	76.9	115 428 429 824	50 2797
6025	9.0	24 4.98	1.2877	0.0042	55 2 2.6	7.194	0.172	78.1	109 110 822 823	54 2149
6026	8.6	19 24 5.92	+1.4432	−0.0026	+ 52 32 46.6	+7.195	+0.193	71.6	111 112	52 2431
6027	8.9	24 20.58	1.5767	0.0015	50 10 7.6	7.215	0.212	83.5 82.9	5 obs. [4]	50 2798
6028	9.4	24 21.59	1.5165	0.0020	51 16 39.0	7.216	0.203	75.7	430 431	51 2593
6029	6.4	24 22.32	1.4719	0.0024	52 3 58.4	7.217	0.197	71.7	113 114	52 2434
6030	8.3	24 34.16	1.5605	0.0016	50 28 54.4	7.233	0.209	77.6	562 563	50 2799
6031	8.8	19 24 44.95	+1.2850	−0.0042	+ 55 6 18.3	+7.248	+0.172	74.7	333 334	55 2202
6032	8.8	24 52.54	1.4448	0.0026	52 33 17.2	7.258	0.193	71.6	111 112	52 2435
6033	8.8	24 56.72	1.4234	0.0028	52 55 4.2	7.264	0.190	79.6	6 obs. [5]	52 2436
6034	8.1	25 8.52	1.4485	0.0026	52 30 17.6	7.280	0.194	71.7	113 114	52 2437
6035	8.6	25 22.55	1.5102	0.0021	51 26 19.9	7.299	0.202	72.9	5 obs. [6]	51 2597
6036	7.6	19 25 24.61	+1.3251	−0.0039	+ 54 31 20.1	+7.302	+0.177	73.6	109 110 430 431	54 2152
6037	7.5	25 30.50	1.3766	0.0033	53 42 44.6	7.310	0.184	75.7	428 429	53 2247
6038	9.4	25 50.55	1.5094	0.0021	51 28 28.3	7.337	0 202	84.6	820 822 824	51 2600
6039	9.4	26 9.78	1.3476	0.0036	54 12 20.4	7.363	0.180	71.6	111 112	54 2156
6040	8.9	26 11.89	1.4869	0.0023	51 53 26.8	7.366	0.198	76.9	5 obs. [7]	51 2603
6041	8.8	19 26 24.84	+1.3261	−0.0039	+ 54 33 16.2	+7.384	+0.176	75.7	430 431	54 2159
6042	9.3	26 26.24	1.3020	0.0042	54 55 33.1	7.386	0.173	77.4	486 564 565	54 2160
6043	**4.1**	**26 33.28**	**1.5119**	**0.0021**	**51 27 51.0**	**7.395**	**0.202**		**Fund. Cat.**	**51 2605**
6044	9.0	26 41.02	1.5519	0.0018	50 44 36.0	7.406	0.207	71.7	115 116	50 2802
6045	8.7	26 52.59	1.4643	0.0025	52 18 55.7	7.421	0.195	71.7	113 114	52 2440
6046	8.0	19 27 5.54	+1.3812	−0.0034	+ 53 42 48.0	+7.439	+0.184	75.7	428 429	53 2251
6047	8.5	27 24.55	1.4344	0.0028	52 51 5.4	7.464	0.191	77.3	486 560 561	52 2441
6048	6.8	27 31.12	1.2901	0.0044	55 9 17.2	7.473	0.171	77.7	564 565 570 571	55 2211
6049	8.7	27 32.47	1.4639	0.0026	52 21 16.2	7.475	0.195	78.6	5 obs. [8]	52 2442
6050	9.3	27 35.10	1.4627	0.0026	52 22 42.6	7.479	0.195	74.7	335 336	52 2443

[1] Z. 430 431 487 488 881α [2] Z. 482 483 560 561 822 823 [3] Z. 108 117 332 335 336
[4] Z. 429 824 880α 883 889 [5] Z. 482 483 560 561 820 822 [6] Z. 115 119 120 335 336
[7] Z. 118 119 120 820 822 [8] Z. 482 483 562 563 820

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6051	8.5	19h 27m 38.s59	+1.s4293	−0.s0029	+ 52° 56′ 55.″7	+7.″484	+0.″190	82.3	566 822 824	52° 2444
6052	9.3	27 40.12	1.2905	0.0044	55 9 24.6	7.486	0.171	81.6	564 882	55 2212
6053	8.9	27 41.52	1.4585	0.0026	52 27 21.8	7.488	0.194	73.7	113 114 567	52 2445
6054	8.1	27 42.78	1.5978	0.0014	49 55 55.9	7.489	0.213	77.7	568 569	49 3033
6055	8.4	27 55.13	1.3301	0.0040	54 33 46.4	7.506	0.176	75.7	430 431	54 2164
6056	8.8	19 27 55.18	+1.3542	−0.0037	+ 54 11 7.6	+7.506	+0.180	71.6	111 112	54 2163
6057	9.4	27 58.19	1.5864	0.0015	50 9 42.6	7.510	0.211	71.7	115 116	50 2805
6058	6.4	28 0.69	1.5929	0.0015	50 2 23.8	7.513	0.212	85.4	822 881 883 884	49 3034
6059	8.5	28 3.01	1.3810	0.0034	53 45 44.4	7.516	0.184	75.7	428 429	53 2254
6060	9.2	28 13.11	1.3149	0.0042	54 48 44.0	7.530	0.174	77.7	564 565	54 2166
6061	9.4	19 28 20.82	+1.4640	−0.0026	+ 52 23 32.2	+7.541	+0.194	77.6	560 561	52 2448
6062	9.0	28 31.28	1.5540	0.0018	50 47 40.2	7.555	0.207	71.7	118 120	50 2806
6063	9.2	28 39.22	1.4522	0.0027	52 36 37.2	7.565	0.193	74.7	335 336	52 2449
6064	8.8	28 40.97	1.3726	0.0036	53 55 44.3	7.568	0.182	79.2	6 obs. [1]	53 2255
6065	8.2	28 41.81	1.4453	0.0028	52 43 44.3	7.569	0.192	71.7	113 114	52 2450
6066	8.2	19 28 43.60	+1.6019	−0.0014	+ 49 54 15.0	+7.571	+0.213	77.7	568 569	49 3038
6067	7.0	28 44.72	1.3047	0.0043	54 59 35.8	7.573	0.173	74.7	111 112 572 573	54 2169
6068	8.1	28 45.92	1.5726	0.0017	50 27 37.4	7.574	0.209	71.7	115 116	50 2808
6069	8.8	28 46.72	1.3558	0.0037	54 12 5.9	7.576	0.180	75.7	430 431	54 2168
6070	9.2	28 56.02	1.4467	0.0028	52 43 0.1	7.588	0.192	77.6	562 563	52 2452
6071	8.4	19 28 57.16	+1.4468	−0.0028	+ 52 43 3.4	+7.590	+0.192	77.6	562 563	52 2452
6072	8.4	29 10.90	1.3722	0.0036	53 57 35.4	7.608	0.182	75.7	428 429	53 2256
6073	8.8	29 26.41	1.3706	0.0036	53 59 53.2	7.629	0.182	77.3	482 564 565	53 2258
6074	9.0	29 33.65	1.4528	0.0028	52 38 38.6	7.639	0.193	71.7	113 114	52 2455
6075	9.0	29 37.05	1.3572	0.0038	54 13 9.8	7.644	0.180	75.7	430 431	54 2172
6076	8.3	19 29 39.01	+1.3817	−0.0035	+ 53 49 46.0	+7.646	+0.183	77.3	486 562 563	53 2259
6077	8.5	29 41.06	1.5644	0.0018	50 39 38.2	7.649	0.208	71.7	115 116	50 2812
6078	8.9	29 45.81	1.3538	0.0038	54 16 50.9	7.655	0.179	76.6	5 obs. [2]	54 2173
6079	9.1	29 49.97	1.3990	0.0034	53 33 27.1	7.661	0.185	80.2 81.6	428 429α 822 824	53 2260
6080	9.3	29 59.02	1.5210	0.0022	51 28 12.3	7.673	0.202	80.9	108 882 884	51 2618
6081	8.9	19 30 7.97	+1.3562	−0.0038	+ 54 15 37.3	+7.685	+0.179	77.2	487 488 560 561	54 2175
6082	9.3	30 9.09	1.4603	0.0028	52 32 47.4	7.687	0.193	74.7	335 336	[52 2458]
6083	9.0	30 16.88	1.4607	0.0028	52 32 42.8	7.697	0.193	74.7	335 336	52 2459
6084	9.0	30 21.88	1.5055	0.0023	51 45 59.4	7.704	0.199	78.2	6 obs. [3]	51 2620
6085	8.0	30 34.78	1.5014	0.0024	51 51 1.6	7.721	0.199	77.7	564 565	51 2621
6086	8.8	19 30 48.77	+1.4241	−0.0031	+ 53 11 31.2	+7.740	+0.188	76.0	428 429 486	53 2265
6087	8.6	31 3.80	1.5195	0.0022	51 33 10.0	7.760	0.201	77.1	487 488 561	51 2622
6088	8.6	31 5.59	1.4711	0.0027	52 24 28.0	7.763	0.194	71.7	113 114	52 2461
6089	6.2	31 5.66	1.5516	0.0020	50 58 10.4	7.763	0.205	71.7	115 116	50 2815
6090	9.0	31 7.83	1.5251	0.0022	51 27 19.1	7.766	0.202	81.1	560 820	51 2623
6091	8.7	19 31 19.46	+1.6026	−0.0015	+ 50 1 16.5	+7.781	+0.212	75.7	430 431	49 3051
6092	8.5	31 23.56	1.3659	0.0038	54 10 8.4	7.787	0.180	71.6	111 112	54 2179
6093	8.9	31 43.24	1.5662	0.0018	50 43 52.1	7.813	0.207	77.7	566 568 569	50 2817
6094	8.6	31 46.40	1.5867	0.0017	50 20 54.7	7.818	0.210	77.7	570 571	50 2819
6095	9.8	31 51.02	1.5555	0.0019	50 56 13.9	7.824	0.206	71.7	115α 116	50 2821
6096	8.4	19 31 53.44	+1.4414	−0.0030	+ 52 57 18.8	+7.827	+0.190	74.7	335 336	52 2462
6097	8.4	31 55.65	1.5488	0.0020	51 3 51.2	7.830	0.205	71.7	5 obs. [4]	51 2625
6098	6.8	31 56.12	1.4840	0.0026	52 13 36.5	7.831	0.196	71.7	113 114	52 2463
6099	9.0	32 10.04	1.4818	0.0026	52 16 33.8	7.849	0.196	71.6	111 112	52 2464
6100	8.5	32 12.14	1.3832	0.0036	53 55 59.4	7.852	0.182	77.3	486 562 563	53 2267

[1] Z. 428 429 482 566 820 823 [2] Z. 111 112 560 561 820 [3] Z. 118 119 120 820 822 824
[4] Z. 106 108 118 119 120

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6101	7.6	19h 32m 33.79	+1.4249	−0.0032	+ 53° 16′ 2.2	+7.881	+0.188	77.7	566 567	53° 2269
6102	6.3	32 34.95	1.6093	0.0015	49 57 32.9	7.883	0.212	76.7	430 431 564 565	49 3059
6103	7.9	32 52.86	1.5108	0.0024	51 48 5.6	7.907	0.199	78.2	6 obs. [1]	51 2628
6104	**4.6**	**33 5.37**	**1.6121**	**0.0015**	**49 55 56.8**	**7.923**	**0.213**		**Fund. Cat.**	**49 3062**
6105	8.7	33 12.11	1.4372	0.0031	53 5 39.8	7.932	0.189	77.3	486 562 563	53 2270
6106	8.8	19 33 27.78	+1.6137	−0.0015	+ 49 55 11.7	+7.954	+0.213	75.7	430 431	49 3064
6107	9.0	33 30.20	1.6126	0.0015	49 56 38.0	7.957	0.212	77.7	566 567	49 3065
6108	8.8	33 32.94	1.5427	0.0021	51 15 41.5	7.960	0.203	74.7	113 114 568 569	51 2630
6109	7.9	33 47.23	1.3381	0.0043	54 43 42.7	7.980	0.176	78.1	111 112 822 824	54 2185
6110	8.9	33 53.50	1.5203	0.0023	51 41 5.9	7.988	0.200	79.4	118 119 820 822 824	51 2634
6111	8.0	19 34 5.04	+1.5023	−0.0025	+ 52 0 59.8	+8.003	+0.198	76.3	108 486 564 574 575	51 2638
6112	9.1	34 8.20	1.5950	0.0017	50 18 56.8	8.008	0.210	77.7	571 572 573	50 2827
6113	8 8	34 33.37	1.5340	0.0022	51 28 18.8	8.041	0.201	79.8 81.9	113 114α 822 880 882	51 2641
6114	7.5	34 44.66	1.3447	0.0042	54 40 27.8	8.056	0.176	71.6	111 112	54 2187
6115	7.4	34 56.18	1.5636	0.0020	50 57 2.0	8.072	0.205	71.7	115 116	50 2829
6116	9.4	19 34 58.98	+1.5693	−0.0019	+ 50 50 43.7	+8.075	+0.206	74.7	335 336	[50 2830]
6117	9.0	35 10.64	1.3672	0.0040	54 20 28.0	8.091	0.179	78.9	487 488 566 567 883	54 2189
6118	9.3[2]	35 15.70[3]	1.5122	0.0025	51 54 7.0[4]	8.098	0.198	71.7	119 120	51 2645
6119	9.0	35 16.00	1.6188	0.0015	49 55 8.9	8.098	0.212	75.7	430 431	49 3073
6120	8.0	35 40.41	1.5331	0.0023	51 32 56.2	8.131	0.201	76.0	113 114 822	51 2646
6121	9.2	19 35 41.04	+1.3660	−0.0041	+ 54 23 18.0	+8.132	+0.178	78.1	111 824	54 2190
6122	8.0	35 46.87	1.5732	0.0019	50 49 2.5	8.139	0.206	75.7	115 116 335 336 880	50 2833
6123	8.9	35 48.49	1.5497	0.0021	51 15 10.5	8.141	0.203	77.3	486 562 563	51 2648
6124	6.2	35 52.48	1.3480	0.0043	54 40 53.9	8.147	0.176	77.7	572 573	54 2193
6125	9.1	35 53.73	1.3322	0.0044	54 55 47.0	8.148	0.174	77.7	569 570 571	54 2192
6126	9.2	19 35 58.17	+1.4204	−0.0035	+ 53 31 8.3	+8.154	+0.186	77.7	564 565	53 2281
6127	9.2	36 5.04	1.5551	0.0021	51 10 6.3	8.164	0.204	76.8	487 488	51 2652
6128	7.7	36 10.73	1.3983	0.0037	53 53 36.0	8.171	0.183	77.7	568 574 575	53 2282
6129	8.7	36 13.79	1.5728	0.0019	50 50 55.7	8.175	0.206	85.6	884	50 2836
6130	8.9	36 15.61	1.4332	0.0033	53 19 14.3	8.178	0.187	80.3	578 671 824	53 2283
6131	8.9	19 36 17.24	+1.5876	−0.0018	+ 50 34 23.5	+8.180	+0.208	78.4	571 677 678	50 2837
6132	8.4	36 17.45	1.3192	0.0046	55 8 59.2	8.180	0.172	78.7	675 676	55 2234
6133	8.6	36 17.99	1.4306	0.0034	53 21 58.8	8.181	0.187	80.0 77.7	576 577 824α	53 2284
6134	8.9	36 32.88	1.5302	0.0024	51 38 54.0	8.201	0.200	80.6	108 820 882	51 2653
6135	8.7	36 34.67	1.5242	0.0024	51 45 30.1	8.203	0.199	78.3 77.4	8 obs. [5]	51 2654
6136	9.4	19 36 42.98	+1.4420	−0.0032	+ 53 11 52.2	+8.214	+0.188	77.6	562 563	53 2285
6137	8.0	36 46.82	1.5222	0.0024	51 48 19.1	8.219	0.199	71.7	115 116	51 2656
6138	9.0	37 7.98	1.5069	0.0026	52 5 54.7	8.247	0.197	71.7	113 114	52 2481
6139	9.1	37 9,20	1.4317	0.0034	53 23 39.2	8.249	0.187	77.7	564 565	53 2288
6140	9.0	37 10.60	1.4141	0.0036	53 41 18.0	8.251	0.184	77.7	568 569	53 2289
6141	8.5	19 37 14.88	+1.3332	−0.0045	+ 54 59 7.0	+8.256	+0.174	71.6	111 112	54 2197
6142	8.8	37 17.83	1.3403	0.0044	54 52 37.6	8.260	0.174	77.7	566 567	54 2198
6143	8.8	37 28.58	1.3937	0.0038	54 2 14.1	8.275	0.182	77.6	562 563	53 2291
6144	8.0	37 52.14	1.6176	0.0016	50 5 8.3	8.306	0.211	71.7	115 116	50 2844
6145	8.9	38 6.04	1.3452	0.0044	54 50 36.2	8.324	0.175	77.7	564 565	54 2202
6146	8.9	19 38 14.70	+1.4980	−0.0027	+ 52 18 58.6	+8.336	+0.195	71.7	113 114	52 2483
6147	9.2	38 25.20	1.5746	0.0020	50 56 7.0	8.350	0.205	74.7	335 336	50 2846
6148	9.3[6]	38 28.59[7]	1.5404	0.0023	51 34 16.1	8.354	0.200	78.2	119 120 820 822	51 2661
6149	6.3	38 29.46	1.6116	0.0016	50 14 8.0	8.355	0.210	83.4 82.6	570 824 880α 881	50 2847
6150	6.6	38 32.32	1.6121	0.0016	50 13 42.9	8.359	0.210	83.1 82.6	7 obs. [8]	50 2848

[1] Z. 118 119 120 820 822 823 [2] Dupl. maj. [3] Z. 118 820 α med. 15.72 (Ep. 78.2) magns 9.1 9.1
[4] Z. 820 δ med. 5.5 (Ep. 84.6) [5] Z. 106 118 119 120 820 822α 824 883 [6] Dupl. maj.
[7] Z. 118 α med. 28.90 (Ep. 71.7) magns 9.2 9.5 [8] Z. 570 571α 822α 824 880α 881 884α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6151	9.1	19h 38m 34s.12	+1s.4831	−0s.0029	+ 52° 35′ 45″.1	+8″.362	+0″.193	77.7	568 569	52° 2486
6152	9.0	38 40.10	1.6057	0.0017	50 21 38.8	8.370	0.209	77.7	572 573	50 2849
6153	9.6	38 41.36	1.3482	0.0044	54 49 40.0	8.371	0.175	84.6	820	54 2205
6154	9.0	38 46.92	1.5331	0.0024	51 43 13.9	8.379	0.200	77.2	487 488 574 575	51 2662
6155	9.0	38 47.14	1.5996	0.0018	50 29 0.4	8.379	0.208	71.7	115 116	50 2850
6156	8.7	19 38 51.45	+1.5332	−0.0024	+ 51 43 19.5	+8.385	+0.200	76.1	5 obs. [1]	51 2664
6157	9.4	39 12.78	1.3929	0.0039	54 8 42.4	8.413	0.181	77.7	566 567	— —
6158	6.8	39 18.36	1.3284	0.0047	55 10 7.4	8.420	0.172	77.7	568 569	55 2245
6159	8.8	39 26.20	1.6233	0.0016	50 3 50.0	8.431	0.211	74.7	335 336	50 2855
6160	9.1	39 28.13	1.3387	0.0046	55 1 5.8	8.433	0.174	77.7	572 573	[54 2209]
6161	9.0	19 39 29.98	+1.5584	−0.0022	+ 51 17 53.2	+8.436	+0.202	84.6	820 824	51 2666
6162	9.2	39 55.39	1.4032	0.0038	54 1 5.0	8.469	0.182	77.7	564 565	53 2296
6163	8.1	39 59.84	1.3590	0.0044	54 43 45.4	8.475	0.176	77.3	488 562 563	54 2212
6164	8.8	40 5 64	1.4629	0.0032	53 1 44.7	8.483	0.190	71.7	113 114	52 2496
6165	7.7	40 8.85	1.5071	0.0027	52 15 45.2	8.487	0.196	83.4	7 obs. [2]	52 2497
6166	8.9	19 40 22.84	+1.5395	−0.0024	+ 51 41 37.8	+8.506	+0.200	76.9	5 obs. [3]	51 2669
6167	8.2	40 24.84	1.5896	0.0019	50 46 1.8	8.508	0.206	71.7	115 116	50 2861
6168	7.4	40 40.62	1.5061	0.0028	52 18 35.4	8.529	0.195	81.2	571 824	52 2501
6169	9.2	40 40.70	1.5999	0.0019	50 35 9.6	8.529	0.206	74.7	335 336	50 2862
6170	9.0	40 43.84	1.5078	0.0027	52 16 56.8	8.533	0.195	81.2	571 824	52 2502
6171	7.9	19 40 44.90	+1.5994	−0.0018	+ 50 35 55.3	+8.535	+0.207	76.2	335 336 568 569	50 2863
6172	8.8	40 56.61	1.4947	0.0029	52 31 31.2	8.550	0.193	85.3	822 884 891	52 2505
6173	9.0	40 58.86	1.6049	0.0018	50 30 24.6	8.553	0.208	77.7	564 565	50 2864
6174	8.9	41 0.34	1.5133	0.0027	52 12 2.8	8.555	0.196	71.7	113 114	52 2507
6175	9.0	41 2.44	1.5884	0.0019	50 49 29.6	8.558	0.206	77.7	572 573	[50 2865]
6176	8.8	19 41 6.77	+1.5888	−0.0019	+ 50 49 19.2	+8.563	+0.206	81.6	572 573 882 887	50 2866
6177	9.2	41 10.26	1.5855	0.0020	50 53 16.9	8.568	0.205	71.7	116	50 2867
6178	8.4	41 14.25	1.4270	0.0036	53 41 53.0	8.573	0.184	80.7	675 676 824	53 2297
6179	9.0	41 15.40	1.4264	0.0036	53 42 34.1	8.575	0.184	78.7	675 676	— —
*6180	8.2	41 19.68	1.4786	0.0031	52 49 43.0	8.580	0.191	80.3 79.7	5 obs. [4]	52 2509
6181	9.0	19 41 25.88	+1.6210	−0.0016	+ 50 13 22.3	+8.589	+0.210	83.8	732 735	50 2869
*6182	8.7	41 25.95	1.4783	0.0031	52 50 21.6	8.589	0.191	79.4 77.6	562 566α 567 822α	52 2510
6183	8.2	41 30.19	1.6078	0.0018	50 28 52.9	8.594	0.208	80.0	568 569 820	50 2870
6184	8.8	42 5.785	1.6110	0.0018	50 27 22.7	8.641	0.208	76.4 78.1	5 obs. [6]	50 2873
6185	8.6	42 10.96	1.4861	0.0030	52 44 50.8	8.648	0.192	71.7	113 114	52 2513
6186	8.8	19 42 26.33	+1.3680	−0.0044	+ 54 43 26.0	+8.668	+0.176	76.8	487 488	54 2218
6187	9.0	42 39 00	1.5697	0.0022	51 16 11.2	8.685	0.203	77.7	106 108 731 735	51 2675
6188	8.0	42 50.87	1.5652	0.0022	51 21 52.3	8.700	0.202	80.0	6 obs. [7]	51 2678
6189	8.8	43 1.27	1.6034	0.0019	50 39 17.9	8.714	0.207	85.6	880 882 887	50 2880
6190	9.2	43 11.97	1.6404	0.0015	49 56 53.1	8.728	0.212	83.9	6 obs. [8]	49 3103
6191	8.6	19 43 17.98	+1.6012	−0.0019	+ 50 42 52.4	+8.736	+0.206	73.2	115 116 335 336	50 2881
6192	8.7	43 18.11	1.6359	0.0016	50 2 30.2	8.736	0.211	77.7	563 568 569	49 3104
6193	8.9	43 23.14	1.4858	0.0030	52 49 19.3	8.743	0.191	71.7	113 114	52 2521
6194	8.2	43 25.16	1.3960	0.0041	54 19 54.8	8.746	0.179	77.7	566 567	54 2222
6195	6.3	43 28.72	1.4105	0.0040	54 5 52.2	8.750	0.181	77.4	488 572 573	54 2223
6196	8.8	19 43 31.38	+1.6441	−0.0015	+ 49 53 37.3	+8.754	+0.212	83.8	731 732	49 3105
6197	8.3	43 41.86	1.6356	0.0016	50 4 19.3	8.767	0.211	77.7	564 565	50 2883
6198	8.8	43 45.72	1.4131	0.0039	54 4 21.5	8.772	0.181	77.7	574 575	54 2224
6199	8.0	43 54.74	1.4831	0.0031	52 53 57.7	8.784	0.191	77.7	568 569	52 2526
6200	9.2	44 14.18	1.5881	0.0020	51 1 5.0	8.810	0.204	80.3 77.7	576 577 884α	50 2887

[1] Z. 108 487 488 574 575
[2] Z. 566 567 882 883 885 887 888
[3] Z. 118 119 120 820 822
[4] Z. 562 566α 567 731 822α
[5] 5s.65 5s.82 5s.70 [6s.26] 5s.94
[6] Z. 115 335 336 820δ 822
[7] Z. 119 120 736 737 820 824
[8] Z. 562 822 824 881 883 884

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6201	9.1	$19^h\,44^m\,15^s.88$	+1ˢ.5490	−0ˢ.0024	+ 51°44′ 50″.8	+8″.812	+0″.199	79.3 81.2	5 obs. [1]	51° 2681
6202	8.5	44 21.34	1.6001	0.0019	50 47 55.2	8.819	0.206	77.8	578 579	50 2888
6203	8.4	44 24.90	1.3649	0.0046	54 53 9.6	8.824	0.175	71.7	113 114	54 2225
6204	8.2	44 28.59	1.5886	0.0020	51 1 27.6	8.829	0.204	81.2 79.8	116 731 733 884α	50 2889
6205	9.2	44 32.89	1.5814	0.0021	51 9 48.4	8.834	0.203	82.3	488 822 885	51 2682
6206	9.2	19 44 34.68	+1.5587	−0.0024	+ 51 35 14.8	+8.837	+0.200	77.7	564 565	} 51 2683
6207	8.3	44 36.09	1.5588	0.0023	51 35 16.2	8.838	0.200	77.7	564 565	
6208	9.0	44 42.96	1.4444	0.0036	53 36 31.1	8.847	0.185	85.7	882 887 888	53 2302
6209	8.8	44 48.78	1.5956	0.0020	50 54 43.3	8.855	0.205	77.7	574 575	50 2890
6210	8.8	44 49.94	1.6257	0.0017	50 20 2.7	8.857	0.209	80.0	568 569 824	50 2891
6211	8.8	19 44 50.21	+1.6166	−0.0018	+ 50 30 40.6	+8.857	+0.208	81.2	576 577 820 822	50 2892
6212	9.1	44 54.96[2]	1.5480	0.0024	51 48 16.7	8.863	0.199	79.7	108 731 733	51 2684
6213	8.4	45 2.02	1.5741	0.0022	51 19 44.8	8.872	0.202	78.4	578 675 676	51 2685
6214	8.8	45 38.64	1.5546	0.0024	51 43 35.5	8.920	0.199	71.7	115 116	51 2688
6215	8.7	45 42.55	1.5401	0.0026	51 59 41.4	8.925	0.197	76.7	336 564 565	51 2689
6216	7.4	19 46 1.83	+1.4582	−0.0035	+ 53 27 8.7	+8.950	+0.186	75.7	121 568 569	53 2303
6217	8.6	46 1.86	1.3573	0.0048	55 5 56.5	8.951	0.173	77.7	574 575	55 2267
6218	8.7	46 2.05	1.4997	0.0030	52 44 7.8	8.951	0.192	71.7	113 114	52 2539
6219	8.8	46 6.96	1.5150	0.0029	52 28 11.3	8.957	0.194	77.7	570 571	52 2540
6220	9.3	46 34.60[3]	1.5580	0.0024	51 43 18.2	8.993	0.199	81.3	336 820 822	51 2692
6221	9.0	19 46 35.20	+1.4870	−0.0032	+ 52 59 30.7	+8.994	+0.190	77.7	576 577	52 2543
6222	8.8	46 40.31	1.3835	0.0044	54 43 23.0	9.001	0.176	77.7	572 573	54 2229
6223	9.5	46 49.96	1.5568	0.0024	51 45 29.4	9.013	0.199	71.7	115 116	[51 2695]
6224	8.7	46 56.98	1.6531	0.0015	49 55 25.7	9.022	0.211	77.7	564 565	49 3120
6225	8.9	47 2.60	1.4301	0.0039	53 59 3.7	9.030	0.182	75.1	121 487 488	53 2305
6226	8.1	19 47 11.68	+1.4094	−0.0042	+ 54 20 2.4	+9.042	+0.179	77.7	574 575	54 2232
6227	9.0	47 14.08	1.4396	0.0038	53 50 17.8	9.045	0.183	77.7	568 569	53 2306
6228	8.0	47 21.99	1.6487	0.0016	50 2 13.4	9.055	0.211	83.5	731 732	49 3123
6229	5.3	47 29.61	1.5084	0.0030	52 40 16.7	9.065	0.192	71.7	113 114	52 2547
6230	9.2	47 34.43	1.4610	0.0035	53 29 49.5	9.071	0.180	77.8	578 579	[53 2307]
6231	7.8	19 47 37.05	+1.4556	−0.0036	+ 53 35 29.4	+9.075	+0.185	77.7	572 573	53 2308
6232	7.8	47 39.68	1.3599	0.0048	55 9 17.6	9.078	0.173	77.7	562 563 566 567	55 2274
6233	9.1	47 42.18	1.5318	0.0027	52 16 1.5	9.081	0.195	77.7	570 571	52 2549
6234	9.1	47 51.82	1.5668	0.0024	51 38 12.1	9.094	0.200	76.7	108 336 735	[51 2697]
6235	9.6	47 52.74	1.3794	0.0046	54 51 33.2	9.095	0.175	77.7	576 577	54 2233
6236	8.7	19 47 54.81	+1.4624	−0.0035	+ 53 29 38.3	+9.098	+0.186	79.3	5 obs. [4]	53 2309
6237	9.1	47 59.88	1.5672	0.0024	51 38 20.7[5]	9.104	0.200	78.5 79.7	108 336α 734 735	51 2698
6238	7.9	48 8.16	1.6362	0.0017	50 19 51.8	9.115	0.209	71.7	115 116	50 2902
6239	7.7	48 9.96	1.6301	0.0018	50 27 8.3	9.117	0.208	78.4	571 675 676	50 2904
6240	8.6	48 15.19	1.3918	0.0044	54 41 2.5	9.124	0.177	77.7	572 573 574 575	54 2235
6241	8.2	19 48 21.35	+1.6439	−0.0016	+ 50 11 39.3	+9.132	+0.210	83.8	731 732	50 2905
6242	9.2	48 22.81	1.6319	0.0017	50 25 51.1	9.134	0.208	78.7	675 676	50 2906
6243	8.9	48 23.58	1.4804	0.0033	53 12 53.2	9.135	0.188	76.8	487 488	53 2310
6244	9.0	48 44.28	1.4689	0.0035	53 26 1.0	9.162	0.187	76.9	5 obs. [6]	53 2312
6245	8.1	48 50.25	1.5682	0.0024	51 40 22.2	9.170	0.200	77.4	336 681 682	51 2701
6246	7.4	19 48 54.13	+1.5529	−0.0025	+ 51 57 28.2	+9.175	+0.198	78.7	679 680	51 2703
6247	8.2	49 3.28	1.5007	0.0031	52 54 9.5	9.186	0.191	71.7	113 114	52 2555
6248	8.5	49 17.20	1.6207	0.0019	50 42 23.4	9.205	0.206	71.7	115 116 119 120	50 2909
6249	9.0	49 17.76	1.5533	0.0026	51 58 30.6	9.205	0.197	83.8	734 735	51 2704
6250	8.8	49 22.64	1.4944	0.0032	53 1 58.0	9.212	0.190	77.7	566 567	52 2558

[1] Z. 119 120α 736 820 824 [2] 54ˢ.79 54ˢ.84 55ˢ.24 [3] 34ˢ.91 34ˢ.56 34ˢ.33

[4] Z. 121 578 579 820 822 [5] 22″.4 [16″.6] 19″.5 20″.2 [6] Z. 121 568 569 683 684

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6251	9.1	19h 49m 25.52	+1.5027	−0.0031	+ 52° 53′ 25.8	+9.215	+0.191	78.4	570 679 680	52° 2559
6252	8.3	49 50.73	1.6210	0.0019	50 44 9.2	9.248	0.206	84.2	731 732 820 822	50 2912
6253	8.8	50 18.01	1.6564	0.0016	50 4 12.5	9.283	0.210	75.7	116 568 569	50 2913
6254	7.9	50 22.45	1.6180	0.0019	50 49 36.8	9.289	0.205	78.4	589 675 676	50 2914
6255	9.2	50 24.76	1.5219	0.0030	52 36 45.0	9.292	0.193	71.7	113 114	52 2564
6256	9.3	19 50 29.14	+1.6321	−0.0018	+ 50 33 40.0	+9.298	+0.207	78.7	677 678	50 2915
6257	9.0	50 40.10	1.6161	0.0019	50 53 1.3	9.312	0.205	80.0	6 obs. [1]	50 2916
6258	8.4	50 41.64	1.5252	0.0029	52 34 18.7	9.314	0.193	77.7	567 570 571	52 2566
6259	9.4	50 47.80	1.4218	0.0042	54 21 4.1	9.322	0.179	76.8	487 488	54 2243
6260	8.9	51 6.27	1.4242	0.0042	54 19 49.9	9.346	0.180	77.7	576 577	54 2246
6261	8.9	19 51 8.47	+1.5844	−0.0023	+ 51 31 1.0	+9.348	+0.200	79.7	108 731 732	51 2707
6262	8.4	51 9.47	1.4463	0.0039	53 57 58.8	9.350	0.182	75.7	122 574 575	53 2318
6263	9.0	51 18.74	1.5571	0.0026	52 2 1.8	9.362	0.197	75.7	117 564 565	51 2709
6264	7.7	51 31.56	1.6392	0.0017	50 29 21.5	9.378	0.207	75.7	115 116 735	50 2920
6265	8.6	51 53.63	1.6323	0.0018	50 38 55.5	9.407	0.206	79.3	5 obs. [2]	50 2921
6266	9.0	19 51 57.29	+1.5347	−0.0028	+ 52 28 51.1	+9.411	+0.193	82.1	5 obs. [3]	52 2570
6267	9.1	52 8.34	1.6700	0.0015	49 55 2.2	9.426	0.211	77.6	562 563	49 3138
6268	9.1	52 10.56	1.4210	0.0042	54 27 3.8	9.428	0.179	76.8	487 488	54 2247
6269	8.9	52 14.92	1.6069	0.0021	51 9 43.4	9.434	0.203	77.7	572 573	51 2710
6270	5.2	**52 23 89**	**1.5568**	**0.0026**	**52 6 27.8**	**9.446**	**0.196**	.	**Fund. Cat.**	**52 2572**
6271	8.3	19 52 24.64	+1.4464	−0.0039	+ 54 2 36.7	+9.447	+0.182	79.3 81.1	5 obs. [4]	53 2323
6272	8.8	52 26.01	1.5388	0.0028	52 26 18.2	9.448	0.194	77.7	568 569	52 2573
6273	9.4	52 57.74	1.4522	0.0039	53 58 54.9	9.489	0.182	77.7	566 567	53 2325
6274	8.1	52 57.87	1.4481	0.0039	54 3 3.6	9.489	0.182	77.7	572 573	53 2326
6275	8.7	53 4.70	1.6458	0.0017	50 27 39.8	9.498	0.207	71.7	115 116	50 2925
6276	8.4	19 53 15.41	+1.4105	−0.0044	+ 54 41 23.4	+9.512	+0.177	71.7	113 114	54 2253
6277	6.4	53 20.10	1.6413	0.0018	50 34 1.8	9.518	0.207	77.8	119 120 731 732	50 2930
6278	7.8	53 26.20	1.4852	0.0035	53 26 57.0	9.526	0.186	74.7	121 122 568 569	53 2328
6279	8.4	53 59.30	1.4143	0.0044	54 40 29.0	9.568	0.177	76.8	487 488	54 2254
6280	8.5	54 0.22	1.4273	0.0042	54 27 47.6	9.569	0.179	77.7	563 564 565	54 2255
6281	8.6	19 54 2.30	+1.5067	−0.0032	+ 53 6 52.1	+9.572	+0.189	77.7	566 567	53 2330
6282	8.4	54 19.46	1.6244	0.0019	50 57 39.4	9.594	0.204	71.7	115 116	50 2936
6283	8.8	54 23.53	1.5418	0.0028	52 30 42.5	9.599	0.193	80.1	5 obs. [5]	52 2581
6284	9.3	54 24.08	1.4530	0.0039	54 3 40.4	9 600	0.182	77.7	568 569	54 2257
6285	8.8	54 28.40	1.6734	0.0015	50 0 14.0	9.605	0.210	77.7	576 577	49 3144
6286	8.9	19 54 30.66	+1.5165	−0.0031	+ 52 58 21.4	+9.608	+0.190	77.8	578 579	52 2582
6287	8.5	54 42.13	1.4406	0.0041	54 17 16.5	9.623	0.180	77.7	564 566 567	54 2259
6288	9.0	54 42.66	1.5505	0.0027	52 22 33.0	9.624	0.194	82.0	7 obs. [6]	52 2583
6289	9.1	54 46.69	1.6369	0.0018	50 44 58.2	9.629	0.205	83.8	731 732	50 2940
6290	8.9	54 47.58	1.6403	0.0018	50 40 59.0	9.630	0.206	77.7	5 obs. [7]	50 2941
6291	8.4	19 54 55.72	+1.4091	−0.0045	+ 54 49 10.8	+9.640	+0.176	76.8	487 488	54 2260
6292	8.9	54 57.53	1.6197	0.0020	51 5 42.4	9.643	0.203	76.7	117 587 675 676	51 2718
6293	8.9	54 58.67	1 4832	0.0036	53 35 7.3	9.644	0.185	73.7	121 122 563	53 2332
6294	8.8	55 4.62	1.5489	0.0028	52 25 40.0	9.652	0.194	77.7	574 575	52 2584
6295	9.1	55 11.47	1.5852	0 0024	51 45 59.2	9.660	0.198	80.9	5 obs. [8]	51 2720
6296	8.9	19 55 34.18	+1.6797	−0.0014	+ 49 57 0.4	+9.690	+0.210	77.7	576 577	49 3147
6297	7.4	55 39.77	1.6616	0.0016	50 19 18.3	9.697	0.208	75.1	116 489 490	50 2945
6298	8.7	55 41.37	1.5435	0.0028	52 34 0.2	9.699	0.193	71.7	113 114	52 2593
6299	9.0	55 43.71	1.5768	0.0025	51 57 32.0	9.702	0.197	77.7	568 569	51 2724
6300	8.2	55 43.91	1.4122	0.0045	54 49 22.4	9.702	0.176	76.8	487 488	54 2262

[1] Z. 119 120 734 735 820 822
[2] Z. 119 120 734 820 822
[3] Z. 113 731 732 884 887
[4] Z. 122α 570 571 820 822
[5] Z. 113 114 881 888 891
[6] Z. 570 580 581 820 822 884 887
[7] Z. 119 120 573 734 735
[8] Z. 579 677 678 820 822

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6301	8.5	19h 55m 48s.18	+1s.5931	−0s.0023	+ 51° 39′ 31″.8	+ 9″.707	+0″.199	81.4	5 obs. [1]	51° 2726
6302	6.0	55 56.57	1.5907	0.0023	51 42 49.7	9.718	0.199	77.7	570 572 573	51 2728
6303	8.5	56 3.54	1.5085	0.0033	53 12 54.8	9.727	0.188	73.7	121 122 563	53 2335
6304	8.9	56 12.71	1.4634	0.0038	54 0 16.2	9.739	0.182	77.7	564 565	53 2336
6305	8.0	56 22.20	1.6687	0.0015	50 13 33.5	9.751	0.208	77.7	574 575	50 2947
6306	8.8	19 56 28.94	+1.6131	−0.0021	+ 51 19 28.4	+ 9.759	+0.201	77.7	576 577	51 2732
6307	8.0	56 30.74	1.5808	0.0024	51 56 11.5	9.762	0.197	77.8	578 579	51 2733
6308	8.8	56 33.97	1.6650	0.0016	50 18 55.7	9.766	0.208	75.7	116 568 569	50 2948
6309	6.8	56 35.46	1.5881	0.0024	51 48 22.2	9.768	0.198	77.7	566 567	51 2734
6310	9.2	56 57.58	1.6602	0.0016	50 26 16.9	9.796	0.207	81.2	489 490 881 884	50 2951
6311	8.3	19 57 6.11	+1.6670	−0.0016	+ 50 18 43.2	+ 9.807	+0.207	77.8	119 120 731 732	50 2952
6312	8.9	57 16.45	1.6012	0.0022	51 36 18.2	9.820	0.199	80.3	6 obs. [2]	51 2737
6313	8.7	57 18.84	1.5583	0.0027	52 24 27.6	9.823	0.194	71.7	113 114	52 2598
6314	9.2	57 19.72	1.6511	0.0017	50 38 36.5	9.824	0.206	82.8	6 obs. [3]	50 2954
6315	9.4	57 21.06	1.6514	0.0017	50 38 22.7	9.826	0.206	85.1 84.7	736 885 894α	[50 2955]
6316	8.6	19 57 23.06	+1.4173	−0.0045	+ 54 50 50.0	+ 9.828	+0.176	76.8	487 488	54 2267
6317	8.3	57 26.10	1.6884	0.0014	49 54 6.6	9.832	0.210	77.7	576 577	49 3156
6318	8.4	57 29.76	1.4250	0.0044	54 43 47.6	9.837	0.177	77.7	572 573	54 2269
6319	8.9	57 30.83	1.6066	0.0022	51 31 10.3	9.838	0.200	82.0 80.7	490 820 824α	51 2739
6320	8.5	57 33.54	1.4554	0.0040	54 13 42.9	9.842	0.181	77.7	568 569	54 2270
6321	9.2	19 57 37.70 [4]	+1.6074	−0.0022	+ 51 30 42.6	+ 9.847	+0.200	80.7	489 824	— —
6322	8.8	57 43.74	1.4775	0.0037	53 51 53.8	9.854	0.183	73.7	121 122 563	53 2337
6323	9.0	57 51.00	1.5443	0.0029	52 41 52.1	9.864	0.192	81.7	566 567 886 890	52 2599
6324	7.8	57 53.19	1.5186	0.0032	53 9 39.1	9.866	0.189	77.7	564 565	53 2339
6325	9.1	57 58.50	1.5408	0.0029	52 46 13.5	9.873	0.191	77.7	574 575 581	52 2600
6326	9.4	19 58 4.91	+1.5675	−0.0026	+ 52 17 28.2	+ 9.881	+0.195	77.8	578 579	52 2601
6327	9.0	58 7.21	1.5971	0.0023	51 44 28.0	9.884	0.198	77.7	570 571	51 2742
6328	8.5	58 15.03	1.5451	0.0029	52 42 38.3	9.894	0.192	83.7 83.5	6 obs. [5]	52 2602
6329	9.3	58 17.65	1.5263	0.0031	53 3 5.6	9.898	0.189	81.6	676 677 822 824	52 2604
6330	9.1	58 27.21	1.4304	0.0044	54 42 12.6	9.910	0.177	76.8	487 488	54 2273
6331	8.8	19 58 28.00	+1.4046	−0.0048	+ 55 7 27.0	+ 9.911	+0.174	77.7	576 577	55 2305
6332	8.0	58 33.55	1.6774	0.0015	50 12 11.1	9.918	0.208	71.7	5 obs. [6]	50 2958
6333	8.6	58 35.05	1.4917	0.0036	53 40 40.7	9.920	0.185	74.7	121 122 562 563	53 2340
6334	9.0	58 54.24	1.5560	0.0028	52 33 26.4	9.944	0.193	77.7	564 565	52 2606
6335	9.5	58 56.87	1.5654	0.0027	52 23 20.6	9.947	0.194	77.7	566 567	52 2607
6336	8.7	19 58 58.38	+1.5938	−0.0024	+ 51 51 46.4	+ 9.949	+0.198	80.3	489 490 731 732	51 2745
6337	8.0	59 5.93	1.4578	0.0040	54 17 27.3	9.959	0.180	84.6	820 824	54 2276
6338	8.9	59 14.06	1.5316	0.0031	53 1 19.4	9.969	0.190	80.0	568 569 822	52 2611
6339	8.1	59 21.13	1.4572	0.0041	54 19 5.9	9.978	0.180	77.7	572 573 577	54 2277
6340	8.2	59 27.60	1.4602	0.0040	54 16 35.3	9.986	0.180	77.1	487 488 576	54 2278
6341	9.6	19 59 34.24	+1.6504	−0.0018	+ 50 48 46.8	+ 9.995	+0.204	76.0	6 obs. [7]	50 2964
6342	8.3	59 35.62	1.5035	0.0035	53 32 33.2	9.996	0.186	74.7	121 122 562 563	53 2343
6343	6.8	59 41.04	1.6934	0.0013	49 57 22.2	10.003	0.210	77.7	566 567	49 3170
6344	6.5	59 42.80	1.6858	0.0014	50 6 49.4	10.005	0.209	77.7	570 571	50 2965
6345	7.0	59 55.62	1.5781	0.0026	52 13 22.1	10.022	0.195	77.7	564 565	52 2613
6346	7.9	20 0 2.74	+1.6228	−0.0021	+ 51 23 8.7	+10.030	+0.201	75.1	117 489 490	51 2750
6347	8.8	0 31.27 [8]	1.5713	0.0027	52 23 22.0	10.067	0.194	80.1	580 581 822	52 2614
6348	8.2	0 35.01	1.5334	0.0031	53 4 54.4	10.071	0.189	74.7	121 122 562 563	53 2344
6349	9.0	0 35.06	1.6368	0.0019	51 9 1.7	10.071	0.202	83.8	737 738	} 51 2754
6350	9.5	0 36.90	1.6436	0.0018	51 1 15.8	10.074	0.203	77.7	568 569 573	

[1] Z. 566 567 731 734 735
[2] Z. 117 570 571 820 822 891
[3] Z. 116 735 736 885 889 894
[4] 38s.00 37s.40
[5] Z. 582 734 820 824α 886 887
[6] Z. 115 116 118 119 120
[7] Z. 116 118 119 120 820 822
[8] 31″.51 31″.25 31″.06

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6351	6.5	20h 0m48s.97	+1s.6487	−0s.0018	+ 50°56′ 2″.2	+10″.089	+0″.204	71.7	115 116	50°2973
6352	8.5	0 51.75	1.6244	0.0021	51 24 39.2	10.092	0.200	80.7	489 490 820 824	51 2756
6353	7.6	1 2.24	1.4760	0.0039	54 6 56.9	10.106	0.182	76.8	487 488	54 2281
6354	8.4	1 6.80	1.4976	0.0036	53 45 2.4	10.111	0.184	77.7	566 567	53 2347
6355	8.5	1 8.50	1.5483	0.0029	52 51 12.0	10.114	0.191	77.8	586 587	52 2616
6356	9.1	20 1 11.06	+1.6523	−0.0018	+ 50 53 22.7	+10.117	+0.204	78.8	7 obs. [1]	50 2975
6357	7.8	1 23.70	1.6362	0.0019	51 13 19.0	10.133	0.202	77.7	570 571	51 2759
6358	8.4	1 31.11	1.5903	0.0024	52 6 24.7	10.142	0.196	82.6	676 820 824	52 2617
6359	8.2	1 42.57	1.6003	0.0023	51 55 58.3	10.156	0.197	77.7	568 569	51 2762
6360	9.0	1 42.96	1.5506	0.0029	52 51 12.1	10.157	0.191	78.4	581 677 678	52 2618
6361	6.1	20 1 43.57	+1.6240	−0.0021	+ 51 28 53.6	+10.158	+0.200	76.8	489 490	51 2763
6362	7.8	1 47.46	1.6942	0.0013	50 5 26.3	10.162	0.209	71.7	115 116	50 2976
6363	9.3	1 51.55	1.5565	0.0028	52 45 16.7	10.168	0.191	77.8	586 587	52 2619
6364	8.7	2 14.62	1.6671	0.0016	50 40 18.6	10.197	0.205	76.5	5 obs. [2]	50 2980
6365	9.2	2 19.28	1.5399	0.0031	53 5 19.7	10.202	0.189	81.1	562 563 820 822	53 2351
6366	9.1	20 2 31.51	+1.4524	−0.0043	+ 54 37 7.1	+10.218	+0.178	76.8	487 488	54 2284
6367	9.1	2 34.35	1.7053	0.0012	49 55 9.2	10.221	0.210	81.1	567 822	[49 3186]
6368	8.9	2 35.67 [3]	1.7062	0.0012	49 54 14.7	10.223	0.210	81.1 82.6	567 822 887δ	49 3187
6369	8.9	2 39.55	1.5630	0.0028	52 41 38.1	10.228	0.192	71.7	115 116	52 2622
6370	6.0	2 56.48	1.5594	0.0028	52 46 49.5	10.249	0.191	76.8	489 490	52 2623
6371	8.8	20 3 4.56	+1.5159	−0.0034	+ 53 34 8.2	+10.259	+0.186	74.7	121 122 564 565	53 2353
6372	9.0	3 12.63	1.5609	0.0028	52 46 19.4	10.269	0.191	77.7	568 569	52 2626
6373	8.8	3 24.68	1.5675	0.0028	52 39 54.4	10.284	0.192	77.7	566 567	52 2627
6374	9.1	3 35.56	1.5533	0.0030	52 56 12.0	10.298	0.190	77.6	562 563	52 2628
6375	8.9	3 38.60	1.6569	0.0017	50 58 39.6	10.302	0.203	71.7	115 116	50 2986
6376	8.2	26 3 52.06	+1.4775	−0.0040	+ 54 17 23.4	+10.319	+0.180	76.8	487 488	54 2286
6377	8.4	4 4.12	1.5780	0.0026	52 31 11.2	10.334	0.193	76.5	5 obs. [4]	52 2629
6378	8.8	4 31.76	1.4402	0.0045	54 57 44.6	10.368	0.175	76.8	487 488	54 2289
6379	8.5	4 43.13	1.6410	0.0019	51 22 4.2	10.382	0.200	81.5	8 obs. [5]	51 2774
6380	9.0	4 45.68	1.5195	0.0034	53 37 31.6	10.386	0.185	74.7	121 122 564 565	53 2359
6381	8.6	20 5 1.72	+1.5560	−0.0030	+ 52 59 33.8	+10.406	+0.189	77.6	562 563	52 2632
6382	8.7	5 9.37	1.6672	0.0016	50 53 0.2	10.415	0.203	74.1	5 obs. [6]	50 2990
6383	7.6	5 9.80	1.7002	0.0013	50 13 1.6	10.416	0.207	71.7	115 116	50 2989
6384	8.5	5 23.98	1.5805	0.0026	52 34 11.2	10.434	0.192	80.5 81.2	5 obs. [7]	52 2634
6385	8.2	5 25.86	1.5588	0.0029	52 58 18.0	10.436	0.190	77.7	570 571	52 2635
6386	8.0	20 5 36.99	+1.5826	−0.0026	+ 52 32 47.0	+10.450	+0.192	81.4 82.0	7 obs. [8]	52 2636
6387	9.0	5 56.67	1.5901	0.0025	52 25 51.2	10.474	0.193	77.6	562 563	52 2637
6388	9.2	5 59.64	1.6646	0.0017	50 59 53.0	10.478	0.202	77.7	572 573	50 2993
6389	8.2	6 2.66	1.6492	0.0019	51 18 22.0	10.482	0.201	76.8	489 490	51 2781
6390	8.0	6 4.86	1.6185	0.0022	51 54 19.1	10.484	0.197	84.1	730 731 822	51 2782
6391	8.3	20 6 5.42	+1.4671	−0.0042	+ 54 37 27.2	+10.485	+0.178	71.8	121 122 123	54 2294
6392	9.1	6 5.92	1.7048	0.0012	50 11 32.6	10.486	0.208	77.7	576 577	50 2994
6393	9.7	6 15.55 [9]	1.6989	0.0013	50 19 32.7	10.498	0.207	74.7	118 119 120 735	50 2995
6394	9.0	6 17.84	1.6633	0.0017	51 2 52.5	10.500	0.202	82.5	579 732 734 822	50 2996
6395	8.5	6 20.17	1.6679	0.0016	50 57 30.9	10.503	0.203	78.6	7 obs. [10]	50 2997
6396	8.5	20 6 26.76	+1.6683	−0.0016	+ 50 57 30.6	+10.512	+0.203	77.7	564 565	50 2999
6397	8.1	6 27.54	1.5583	0.0029	53 3 17.3	10.512	0.189	77.7	566 567	52 2640
6398	9.0	6 29.78	1.6480	0.0019	51 21 47.4	10.515	0.200	77.7	570 571	51 2783
6399	9.2	6 32.38	1.6650	0.0017	51 1 55.6	10.519	0.202	77.8	578 579	50 3001
6400	8.5	6 36.57	1.6674	0.0016	50 59 19.4	10.524	0.202	78.5	432 433 739	50 3002

[1] Z. 118 119 120 731 732 820 822
[2] Z. 118 119 120 730 731
[3] 35s.70 35s.64 [36s.38]
[4] Z. 118 119 120 730 731
[5] Z. 117 489 490 820 822 887 889 894
[6] Z. 118 119 120 568 569
[7] Z. 565 566 567α 820 824
[8] Z. 564 566 567α 738 739 822 824
[9] 15s.35 15s.62 15s.40 15s.82
[10] Z. 115 116 568 569 736 737 738

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6401	8.1	20h 6m 58s.83	+1s.4742	−0s.0041	+ 54° 34′ 12″.2	+10″.551	+0″.178	71.8	121 122 123	54° 2299
6402	9.2	7 6.68	1.6464	0.0019	51 26 30.4	10.561	0.200	75.1	117 489 490	51 2786
6403	7.3	7 10.93	1.6171	0.0022	52 0 47.3	10.566	0.196	74.2	5 obs. [1]	51 2787
6404	8.4	7 20.20	1.4558	0.0044	54 54 14.8	10.578	0.176	76.8	487 488	54 2300
6405	8.8	7 26.62	1.6008	0.0024	52 20 33.6	10.586	0.194	77.7	564 565	52 2644
6406	8.9	20 7 31.88	+1.5027	−0.0037	+ 54 7 19.6	+10.592	+0.182	77.6	562 563	54 2302
6407	8.6	7 32.28	1.6304	0.0021	51 47 9.8	10.593	0.197	76.5	5 obs. [2]	51 2790
6408	9.0	8 2.50	1.5207	0.0035	53 50 45.8	10.630	0.184	71.8	121 122 123	53 2361
6409	8.8	8 8.23	1.5082	0.0037	54 4 18.3	10.637	0.182	76.8	487 488	54 2303
6410	7.9	8 18.96	1.6578	0.0018	51 18 31.1	10.651	0.200	74.2	115 116 489 490	51 2793
6411	9.0	20 8 34.54	+1.6342	−0.0020	+ 51 47 28.0	+10.670	+0.197	77.7	562 564 565	51 2794
6412	8.6	8 53.24	1.6293	0.0021	51 54 32.6	10.693	0.196	81.0	6 obs. [3]	51 2795
6413	6.0	9 3.02	1.6718	0.0016	51 5 16.8	10.705	0.202	77.7	574 575	51 2796
6414	9.3	9 11.76	1.7187	0.0011	50 8 30.0	10.716	0.207	71.7	116 118 119 120	50 3017
6415	8.2	9 13.71	1.5436	0.0032	53 31 43.4	10.718	0.186	71.8	121 122 123	53 2363
6416	8.8	20 9 14.78	+1.6361	−0.0020	+ 51 48 17.9	+10.720	+0.197	75.8	432 433 434	— —
6417	8.8	9 18.66	1.4960	0.0039	54 22 14.6	10.724	0.180	76.8	487 488	54 2305
6418	9.2	9 23.41	1.5161	0.0036	54 1 38.5	10.730	0.182	77.8	578 579	53 2364
6419	8.6	9 30.28	1.4736	0.0042	54 45 55.6	10.739	0.177	77.7	572 573	54 2306
6420	9.0	9 30.88	1.6339	0.0021	51 52 8.5	10.739	0.197	76.8	489 490	51 2798
6421	8.8	20 9 31.08	+1.6888	−0.0014	+ 50 46 53.6	+10.740	+0.203	77.8	580 581	50 3019
6422	9.2	9 32.68	1.5194	0.0036	53 58 52.4	10.742	0.182	77.8	586 587	53 2365
6423	8.7	9 45.78	1.7155	0.0011	50 15 8.6	10.758	0.207	77.6	494 582 589 591	50 3021
6424	8.8	9 47.94	1.6986	0.0013	50 36 8.3	10.760	0.205	78.7	677 678	50 3022
6425	9.0	9 54.34	1.6589	0.0018	51 24 33.5	10.768	0.200	77.6	562 564	51 2799
6426	8.3	20 9 55.02	+1.6561	−0.0018	+ 51 27 54.1	+10.769	+0.199	77.7	565 570 571	51 2800
6427	9.2	9 55.16	1.6877	0.0014	50 50 4.4	10.769	0.203	78.7	679 680	50 3024
6428	7.8	9 56.14	1.6738	0.0016	51 6 58.2	10.770	0.201	77.7	574 575	51 2801
6429	8.5	10 2.47	1.4611	0.0044	55 1 1.1	10.778	0.175	78.7	683 684	54 2308
6430	9.1	10 3.54	1.5683	0.0029	53 8 37.8	10.779	0.188	78.7	681 682	53 2367
6431	8.1	20 10 4.49	+1.4744	−0.0042	+ 54 47 41.1	+10.781	+0.177	85.8	888 894	54 2310
6432	8.6	10 11.96	1.6063	0.0024	52 26 51.8 [4]	10.790	0.193	77.1	432 576 577	52 2656
6433	7.7	10 16.36	1.6878	0.0014	50 51 31.4	10.795	0.203	71.7	115 116	50 3028
6434	7.0	10 21.46	1.5914	0.0026	52 44 24.9	10.802	0.191	77.3	494 495 578 579	52 2657
6435	7.0	10 21.86	1.5621	0.0030	53 16 53.5	10.802	0.187	71.8	121 122 123	53 2368
6436	6.9	20 10 23.05	+1.4783	−0.0042	+ 54 45 11.2	+10.804	+0.177	79.5	6 obs. [5]	54 2311
6437	9.0	10 33.81	1.6549	0.0018	51 32 25.4	10.817	0.199	76.8	489 490	51 2803
6438	9.2	10 40.26	1.7000	0.0013	50 38 33.5	10.825	0.204	79.8	119 730 731	50 3029
6439	8.7	11 3.10	1.5040	0.0038	54 21 49.9	10.853	0.180	77.4	495 572 573	54 2313
6440	8.6	11 25.42	1.5187	0.0036	54 8 7.4	10.880	0.182	76.8	487 488	54 2314
6441	7.4	20 12 1.29	+1.5423	−0.0033	+ 53 45 53.5	+10.924	+0.184	74.1	5 obs. [6]	53 2374
6442	8.5	12 6.58	1.5841	0.0027	53 0 44.4	10.930	0.189	75.8	432 433 434	52 2663
6443	8.9	12 8.36	1.5145	0.0037	54 15 53.6	10.933	0.181	77.8	572 580 581	54 2315
6444	8.8	12 13.68	1.4818	0.0042	54 50 0.6	10.939	0.176	81.7	7 obs. [7]	54 2316
6445	9.5	12 19.18	1.6132	0.0024	52 29 0.0	10.946	0.192	77.8	578 579	52 2665
6446	8.6	20 12 19.57	+1.4799	−0.0042	+ 54 52 25.1	+10.946	+0.176	79.5	5 obs. [8]	54 2317
6447	8.9	12 24.36	1.7011	0.0013	50 45 23.8	10.952	0.203	71.7	115 116	50 3038
6448	7.1	12 25.43	1.6327	0.0021	52 7 5.2	10.953	0.195	78.7	684 685 686	52 2666
6449	9.0	12 37.02	1.5151	0.0037	54 17 27.0	10.968	0.181	76.8	487 488	54 2318
6450	9.1	12 39.24	1.5484	0.0032	53 42 20.7	10.970	0.184	77.7	576 577	53 2376

[1] Z. 115 116 432 433 434

[2] Z. 118 119 120 730 731

[3] Z. 117 570 739 740 822 824

[4] 48″.9 52″.4 54″.0

[5] Z. 487 488 580 581 738 739

[6] Z. 121 122 123 576 577

[7] Z. 586 677 678 738 739 822 824

[8] Z. 587 589 677 678 824

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6451	8.6	$20^h\ 12^m 41^s.07$	+1ˢ.7057	−0ˢ.0012	+ 50°41′ 6″.2	+10ˢ.972	+0ˢ.204	77.8	119 120 730 731	50° 3040
6452	8.8	12 42.32	1.5918	0.0026	52 54 55.4	10.974	0.189	78.8	687 688	52 2668
6453	9.0	12 44.18	1.6997	0.0013	50 48 46.2	10.976	0.203	77.8	494 495 681 682	50 3042
6454	9.3	12 47.53	1.6711	0.0016	51 23 42.7	10.980	0.199	83.0	680 820 894	51 2812
6455	7.1	12 48.66	1.6601	0.0018	51 36 48.1	10.982	0.198	84.0	732 734 735 822	51 2813
6456	7.3	20 12 55.66	+1.6552	−0.0018	+ 51 43 10.1	+10.990	+0.197	80.7 81.7	693 695α 820	51 2814
6457	8.9	13 1.52	1.4920	0.0040	54 43 18.0[1]	10.997	0.177	80.1 77.8	579 580 822α	[54 2319]
6458	8.8	13 3.83	1.6534	0.0019	51 46 0.6	11.000	0.197	80.7	693 695 824	51 2815
6459	9.0	13 6.01	1.4915	0.0040	54 44 9.1	11.003	0.177	81.0	579 580 739 822	54 2320
6460	7.6	13 10.15	1.6413	0.0020	52 0 40.2	11.008	0.195	78.5	582 687 688	51 2818
6461	9.0	20 13 10.42	+1.6869	−0.0015	+ 51 6 29.8	+11.008	+0.201	75.8	432 433 434	51 2817
6462	9.5	13 11.92[2]	1.7160	0.0012	50 30 49.5	11.010	0.204	83.7 82.3	690 820α 887α 889	50 3044
6463	8.6	13 12.01	1.7407	0.0009	49 59 50.2	11.010	0.208	83.8	732 735	49 3244
6464	8.5	13 18.40	1.5299	0.0035	54 5 6.3[3]	11.018	0.182	78.2 78.0	572 573 685 686α	54 2321
6465	7.6	13 19.20	1.7458	0.0008	49 53 55.2	11.019	0.208	83.8	730 731	49 3245
6466	9.3	20 13 29.78	+1.6521	−0.0019	+ 51 49 34.5	+11.032	+0.196	79.8	489 490 890	51 2820
6467	9.3	13 40.16	1.5302	0.0035	54 6 30.2	11.044	0.182	78.7	685 686	[54 2323]
6468	9.4	13 42.55	1.7335	0.0010	50 11 26.7	11.047	0.206	76.1	5 obs. [4]	50 3045
6469	9.3	13 44.62	1.7427	0.0008	49 59 53.9	11.050	0.208	78.7	681 682	49 3247
6470	9.3	13 48.05	1.6637	0.0018	51 37 22.5	11.054	0.198	81.1	679 680 894	51 2821
6471	8.8	20 13 48.24	+1.5198	−0.0036	+ 54 18 4.6	+11.054	+0.180	76.8	487 488	54 2324
6472	7.7	14 1.24	1.7072	0.0012	50 45 46.4	11.070	0.203	79.0	5 obs. [5]	50 3046
6473	8.8	14 8.41	1.5295	0.0035	54 9 26.4	11.079	0.181	77.7	572 573	54 2325
6474	8.9	14 18.63	1.6483	0.0019	51 57 56.7	11.091	0.196	75.8	432 433 434	51 2823
6475	9.3	14 32.61	1.6559	0.0018	51 50 11.3	11.108	0.196	77.8	586 587	[51 2825]
6476	8.6	20 14 34.35	+1.6601	−0.0018	+ 51 45 22.0	+11.110	+0.197	76.8	489 490	51 2826
6477	8.9	14 34.47	1.5890	0.0027	53 6 58.8	11.111	0.188	71.8	121 122α 123	53 2378
6478	6.8	14 37.11[6]	1.5444	0.0033	53 55 52.1	11.114	0.183	83.8 82.3	582δ 730 731 739	53 2379
6479	9.2	14 37.48	1.6951	0.0014	51 3 28.8	11.114	0.201	77.7	574 575	51 2827
6480	8.2	14 40.02	1.5608	0.0031	53 38 27.2	11.117	0.185	77.8	578 579	53 2380
6481	7.4	20 14 47.75	+1.6751	−0.0016	+ 51 28 36.0	+11.127	+0.199	77.8	576 577	51 2829
6482	9.5	14 54.94	1.6865	0.0015	51 15 22.7	11.135	0.200	77.1	494 495 580	51 2830
6483	8.8	14 55.28	1.5340	0.0035	54 8 25.2	11.136	0.181	76.8	487 488	54 2328
6484	8.5	15 13.19	1.7244	0.0011	50 30 18.1	11.158	0.204	71.7	115 116	50 3048
6485	9.2	15 17.10	1.6052	0.0025	52 52 14.6	11.162	0.190	77.7	568 569	52 2676
6486	8.8	20 15 19.50	+1.4858	−0.0042	+ 55 0 25.2	+11.165	+0.175	77.7	566 567δ } [7]	54 2329
6487	7 8	15 19.68	1.4858	0.0042	55 0 25.0	11.165	0.175	77.7	566 567δ }	
6488	9.0	15 20.26	1.6604	0.0018	51 48 44.0	11.166	0.196	77.8	6 obs. [8]	51 2832
6489	9.0	15 22.95	1.6606	0.0018	51 48 43.8	11.169	0.196	74.8 75.8	117α 432 433 434	51 2833
6490	8.8	15 26.20	1.6539	0.0019	51 56 54.2	11.173	0.195	77.8	578 579	51 2834
6491	7.2	20 15 32.76	+1.6727	−0.0016	+ 51 35 5.9	+11.181	+0.198	76.8	489 490	51 2835
6492	9.0	15 34.62	1.6370	0.0021	52 17 14.8	11.183	0.193	77.7	570 571	52 2677
6493	8.0	15 35.74	1.7267	0.0010	50 29 13.2	11.185	0.204	77.8	119 120 730 731	50 3049
6494	7.8	15 50.23	1.4796	0.0043	55 9 6.0	11.202	0.174	78.5	5 obs. [9]	55 2370
6495	9.2	15 51.36	1.6076	0.0025	52 52 18.6	11.204	0.190	77.7	572 573	52 2678
6496	8.4	20 15 55.72	+1.7109	−0.0012	+ 50 50 33.0	+11.209	+0.202	77.1	494 495 574	50 3050
6497	9.4	15 57.43	1.6539	0.0019	51 59 22.7	11.211	0.195	77.7	576 577	51 2837
6498	9.4	16 25.96	1.7208	0.0011	50 40 48.6	11.246	0.203	71.7	115 116	50 3055
6499	8.8	16 27.14	1.7038	0.0013	51 1 54.1	11.247	0.201	75.8	120 578 579	50 3056
6500	8.6	16 27.67	1.7119	0.0012	50 51 54.2	11.248	0.202	77.4	6 obs. [10]	50 3058

[1] 18″.3 17″.8 [23″.3]
[2] 11ˢ.69 12ˢ.18 11ˢ.80 12ˢ.01
[3] 5″.2 6″.7 7″.0 [12″.3]
[4] Z. 116 494 495 576 577
[5] Z. 119 120 732 734 735α
[6] [36ˢ.64] 37ˢ.07 37ˢ.12 37ˢ.14
[7] Z. 567 mean of nos. 6486 and 6487 α 19ˢ.50
[8] Z. 117 432 433 434 738 739
[9] Z. 582 677 678 681 682
[10] Z. 494 495 574 575 580 581

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6501	8.8	20h 16m 30.86	+1.7016	−0.0013	+ 51° 4′ 54.3	+11.251	+0.201	76.2	5 obs. [1]	51°2839
6502	8.8	16 32.13	1.7011	0.0013	51 5 39.0	11.253	0.201	76.2 76.3	5 obs. [2]	51 2840
6503	9.1	16 39.06	1.6990	0.0013	51 8 47.0	11.261	0.200	77.7	568 569	51 2841
6504	8.9	16 39.53	1.7129	0.0012	50 51 39.2	11.262	0.202	77.5	494 575 580 581	50 3059
6505	9.1	16 58.65	1.6206	0.0023	52 43 2.2	11.285	0.190	80.8 80.7	7 obs. [3]	[52 2680]
6506	8.6	20 17 1.31	+1.6831	−0.0015	+ 51 29 54.2	+11.288	+0.198	77.7	570 571	51 2845
6507	9.1	17 5.38	1.6216	0.0023	52 42 22.7	11.293	0.190	79.9	7 obs. [4]	52 2681
6508	5.9	17 11.42	1.5959	0.0026	53 11 57.6	11.300	0.187	71.8	121 122α 123	53 2384
6509	9.0	17 15.86	1.7455	0.0008	50 13 43.0	11.306	0.206	77.7	572 573	50 3061
6510	9.1	17 18.79	1.5507	0.0033	54 2 4.1	11.309	0.182	80.3 81.5	487α 488 731 739	53 2386
6511	9.0	20 17 25.44	+1.7512	−0.0008	+ 50 7 17.8	+11.317	+0.206	71.7	115 116	50 3062
6512	9.2	17 31.04	1.6235	0.0023	52 42 23.3	11.324	0.190	81.7	579 885	52 2683
6513	9.0	17 39.23	1.6952	0.0014	51 18 26.7	11.334	0.199	76.2	5 obs. [5]	51 2847
6514	7.6	17 46.67	1.6604	0.0018	52 0 46.2	11.343	0.195	81.9	117 824 887 890	51 2848
6515	9.6	17 51.93	1.6382	0.0021	52 27 10.0	11.349	0.192	77.7	566 567	52 2684
6516	8.8	20 17 55.37	+1.7393	−0.0009	+ 50 24 58.9	+11.353	+0.204	81.0	120 732 734 824	50 3064
6517	8.0	18 7.17	1.6257	0.0023	52 42 51.0	11.367	0.190	77.7	572 573	52 2686
6518	8.2	18 12.46	1.6709	0.0017	51 50 29.8	11.374	0.196	77.7	570 571	51 2850
6519	8.5	18 29.70	1.5026	0.0040	54 58 21.3	11.394	0.175	76.8	487 488	54 2335
6520	8.5	18 29.79	1.5111	0.0039	54 49 38.7	11.395	0.176	77.7	574 575	54 2336
6521	7.2	20 18 33.36	+1.7548	−0.0007	+ 50 8 26.8	+11.399	+0.206	71.7	115 116	50 3067
6522	8.2	18 49.53	1.6854	0.0015	51 36 11.0	11.418	0.197	83.8	732 734 735	51 2852
6523	8.4	18 52.58	1.5558	0.0032	54 4 15.8	11.422	0.182	78.2	576 577 685 686	54 2338
6524	8.6	18 58.02	1.6420	0.0021	52 28 16.1	11.428	0.192	75.8	432 434	52 2691
6525	9.2	19 1.00	1.6021	0.0026	53 13 59.6	11.432	0.187	71.8	121 122α 123	53 2392
6526	9.0	20 19 2.74	+1.7526	−0.0007	+ 50 13 41.1	+11.434	+0.205	75.8	120 578 579	50 3069
6527	8.7	19 10.22	1.6805	0.0016	51 43 49.1	11.443	0.196	77.5	489 490 687	51 2853
6528	7.1	19 19.57	1.5320	0.0036	54 31 51.4	11.454	0.178	83.6	5 obs. [6]	54 2339
6529	8.9	19 23.57	1.5442	0.0034	54 19 13.6	11.459	0.180	77.8	586 587	54 2340
6530	8.4	19 26.02	1.6162	0.0024	53 0 16.1	11.462	0.188	79.5	6 obs. [7]	52 2693
6531	7.5	20 19 27.66	+1.6157	−0.0024	+ 53 0 53.6	+11.464	+0.188	79.5	6 obs. [8]	52 2694
6532	9.2	19 29.42	1.6204	0.0023	52 55 46.2	11.466	0.188	78.7	679 680	52 2695
6533	8.2	19 32.88	1.7100	0.0012	51 9 55.0	11.470	0.200	78.7	681 682	51 2855
6534	9.2	19 34.48 [9]	1.7701	0.0005	49 53 52.9	11.472	0.207	82.4	683 739 824	49 3270
6535	6.5	19 47.54	1.5488	0.0034	54 16 14.0	11.488	0.180	76.8	487 488	54 2341
6536	8.6	20 19 49.32	+1.7482	−0.0008	+ 50 23 25.0	+11.490	+0.204	71.7	115 116	50 3073
6537	9.4	19 57.94	1.6846	0.0015	51 42 57.4	11.500	0.196	82.5	687 732 734 735	51 2856
6538	8.8	20 8.85	1.7191	0.0011	51 1 40.8	11.513	0.200	77.7	576 577	50 3074
6539	8.5	20 15.88	1.7450	0.0008	50 29 41.9	11.522	0.204	79.7	578 579 680 822	50 3076
6540	9.0	20 20.38	1.7164	0.0012	51 6 0.4	11.527	0.200	76.8	489 490	51 2858
6541	9.4	20 20 20.38	+1.7258	−0.0010	+ 50 54 20.0	+11.527	+0.201	81.4	586 691 820 822	50 3078
6542	9.1	20 21.12	1.7334	0.0010	50 44 47.4	11.528	0.202	78.5	580 689 690	50 3077
6543	7.9	20 23.84 [10]	1.6658	0.0018	52 7 36.6	11.531	0.195	74.8	117 432 433 434	52 2698
6544	9.0	20 27.74	1.7428	0.0008	50 33 35.3	11.536	0.203	77.8	494 495 681 682	50 3079
6545	9.1	20 30.06	1.7476	0.0008	50 27 35.0	11.538	0.204	82.6	679 820 822	50 3080
6546	9.1	20 20 37.29	+1.5715	−0.0030	+ 53 55 52.5	+11.547	+0.182	71.8	121 122 123	53 2394
6547	9.4	20 56.30	1.6652	0.0018	52 11 5.2	11.570	0.194	77.7	572 573	52 2699
6548	8.7	21 2.36	1.5896	0.0028	53 38 6.6	11.577	0.184	82.7 81.2	683 731 885α	53 2396
6549	8.7	21 7.47	1.7275	0.0010	50 56 12.4	11.583	0.201	76.8	115 116 579 889	50 3083
6550	6.4	21 10.41	1.6165	0.0024	53 8 43.0	11.587	0.188	82.3	589 732 734 735	53 2397

[1] Z. 432 433 434 489 490
[2] Z. 432 433α 434 489 490
[3] Z. 566 567α 589 591 822α 824 885
[4] Z. 566 567 578 589 591 822 885
[5] Z. 432 433 434 489 490
[6] Z. 580 820 824 885 887
[7] Z. 494 495 589 591 730 731
[8] Z. 494 495 589 591 730 731
[9] 34.35 34.78 34.31
[10] 24.18 23.68 23.65 23.85

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6551	8.2	20h 21m 11s.41	+1s.7627	−0s.0006	+ 50° 11′ 54″.1	+11″.588	+0″.205	75.7	120 576 577	50° 3084
6552	9.5	21 11.74	1.7293	0.0010	50 54 23.9	11.588	0.201	81.8 77.8	578 889α	50 3085
6553	7.9	21 14.63	1.7306	0.0010	50 52 59.0	11.592	0.201	79.8	580 581 740	50 3086
6554	8.8	21 21.18	1.7442	0.0008	50 36 22.2	11.599	0.203	77.3	494 495 586 587	50 3087
6555	9.2	21 22.77	1.5902	0.0028	53 39 9.0	11.601	0.184	82.7 82.2	683 730α 885	[53 2398]
6556	9.3	20 21 28.20	+1.7440	−0.0008	+ 50 37 10.8	+11.608	+0.203	77.8	586 587	[50 3088]
6557	8.9	21 29.82	1.6317	0.0022	52 52 57.9	11.610	0.189	75.8	432 433 434	52 2703
6558	7.0	21 29.84	1.5132	0.0039	55 2 12.4	11.610	0.175	76.8	487 488	54 2344
6559	8.8	21 30.34	1.5194	0.0038	54 55 53.4	11.610	0.176	77.8	582 583	54 2345
6560	8.8	21 30.44	1.6773	0.0016	51 59 35.0	11.610	0.194	83.8	738 739	51 2860
6561	7.5	20 21 32.94	+1.5384	−0.0036	+ 54 36 8.8	+11.613	+0.178	77.7	574 575	54 2346
6562	9.0	21 35.74	1.7079	0.0012	51 22 56.2	11.617	0.198	76.8	489 490	51 2861
6563	8.9	21 50.38	1.5723	0.0030	54 1 12.6	11.634	0.182	77.7	570 571	53 2399
6564	8.0	21 52.59	1.6555	0.0019	52 27 18.2	11.637	0.192	77.7	566 567	52 2705
6565	9.2	22 0.24	1.7684	0.0005	50 8 40.3	11.646	0.205	77.8	116 120 730 731	50 3090
6566	7.9	20 22 7.31	+1.5173	−0.0039	+ 55 1 7.6	+11.654	+0.175	78 3	5 obs. [1]	54 2347
6567	8.4	22 7.38	1.6680	0.0017	52 13 55.2	11.654	0.193	77.7	568 569	52 2706
6568	9.4	22 7.98[2]	1.6494	0.0020	52 35 50.9	11.655	0.191	81.2	572 573 738 884	[52 2707]
6569	9.5	22 15.08	1.6488	0.0020	52 37 6.5	11.663	0.191	84.2 84.6	738α 822	52 2709
6570	7.0	22 18.00	1.5603	0.0032	54 16 31.9	11.667	0.180	77.8	578 579	54 2348
6571	7.4	20 22 22.25	+1.6441	−0.0020	+ 52 43 10.2	+11.672	+0.190	77.7	576 577	52 2711
6572	8.3	22 29.02	1.5356	0.0036	54 43 46.6	11.680	0.177	76.8	487 488	54 2349
6573	8.6	22 34.28	1.6662	0.0017	52 18 19.2	11.686	0.193	76.3	432 433 434 582	52 2713
6574	9.0	22 40.64	1.6767	0.0016	52 6 26.6	11.694	0.194	77.7	574 575	52 2715
6575	9.0	22 44.15	1.5484	0.0034	54 31 28.2	11.698	0.178	77.7	566 567	54 2350
6576	9.5	20 22 45.58	+1.6696	−0.0017	+ 52 15 14.0	+11.700	+0.193	78.7	681 682	52 2716
6577	9.0	22 54.79	1.7744	0.0005	50 5 41.9	11.710	0.205	81.4	5 obs. [3]	50 3094
6578	8.6	22 56.32	1.5999	0.0026	53 36 25.3	11.712	0.184	80.8	576 577 738 739	53 2404
6579	8.1	22 59.11	1.6123	0.0025	53 22 46.0	11.716	0.186	77.7	570 571	53 2405
6580	8.2	22 59.80	1.7468	0.0008	50 41 44.0	11.716	0.202	71.7	115 116	50 3095
6581	8.2	20 23 1.90	+1.5998	−0.0027	+ 53 36 55.7	+11.719	+0.184	76.9 74.1	7 obs. [4]	53 2406
6582	7.8	23 18.02	1.6653	0.0018	52 23 10.1	11.738	0.192	77.7	568 569	52 2717
6583	8.6	23 34.98	1.7532	0.0007	50 36 37.6	11.758	0.202	77.4	6 obs. [5]	50 3096
6584	8.8	23 42.36	1.5164	0.0039	55 10 1.7	11.767	0.174	77.8	578 579	55 2400
6585	8.7	23 50.28	1.6136	0.0025	53 25 37.7	11.776	0.185	71.8	121 122 123	53 2410
6586	8.5	20 23 50.66	+1.6561	−0.0019	+ 52 36 50.1	+11.777	+0.190	75.8	432 433 434	52 2719
6587	9.0	24 0.17	1.7570	0.0006	50 34 3.5	11.788	0.202	79.8	116 730 731	50 3099
6588	9.1	24 16.66	1.7740	0.0004	50 13 35.2	11.807	0.204	74.7	118 120 570 571	50 3101
6589	8.9	24 20.87	1.7559	0.0007	50 37 16.7	11.812	0.202	81.8	573 738 739	50 3102
6590	9.4	24 31.28	1.6626	0.0018	52 32 51.0	11.824	0.191	75.8	432 434	52 2724
6591	9.0	20 24 39.48	+1.7882	−0.0003	+ 49 56 56.8	+11.834	+0.205	77.8	578 579	49 3289
6592	8.5	24 46.70	1.7268	0.0010	51 16 22.0	11.843	0.198	75.1	117 489 490	51 2868
6593	8.7	24 53.77	1.7760	0.0004	50 14 14.8	11.851	0.204	77.4	6 obs. [6]	50 3104
6594	9.4	24 57.00	1.7138	0.0012	51 33 27.0	11.855	0.196	77.8	576 577	51 2869
6595	8.5	25 6.36	1.5841	0.0029	54 5 7.6	11.866	0.181	77.8	574 575 586 587	54 2356
6596	9.2	20 25 6.78	+1.5839	−0.0029	+ 54 5 21.7	+11.866	+0.181	77.8	574 575 586 587	[54 2357]
6597	8.9	25 11.76	1.7524	0.0007	50 46 19.4	11.872	0.201	74.7	116 570	50 3105
6598	8.8	25 19.71	1.7444	0.0008	50 57 17.0	11.881	0.200	73.7	118 120 573	50 3106
6599	8.2	25 36.40	1.6639	0.0018	52 37 4.6	11.901	0.190	77.7	576 577	52 2729
6600	7.2	25 37.19	1.7879	0.0003	50 2 33.6	11.902	0.205	77.8	578 579	49 3291

[1] Z. 580 581 679 680 683

[2] 7″.89 7″.69 8″.06 8″.26

[3] Z. 120 730 732 734 735

[4] Z. 121 122 123 576 577 738α 739α

[5] Z. 494 495 566 567 572 573

[6] Z. 494 495 566 567 580 581

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6601	9.4	20h 25m 42.57	+1.6509	−0.0020	+ 52° 52′ 49.2	+11.908	+0.188	75.8	432 434	52° 2730
6602	8.7	25 52.43	1.6386	0.0021	53 7 54.4	11.920	0.187	71.8	121 122 123	53 2418
6603	8.6	25 58.29	1.7959	0.0002	49 54 0.6	11.927	0.205	77.8	580 581 582 583	49 3292
6604	8.0	26 1.56	1.6488	0.0020	52 56 55.4	11.930	0.188	77.1	6 obs. [1]	52 2731
6605	8.2	26 16.91	1.6102	0.0025	53 42 23.7	11.948	0.183	75.7	121 572 573	53 2419
6606	8.7	20 26 20.19	+1.7864	−0.0003	+ 50 8 25.4	+11.952	+0.204	71.7	116 118 120	50 3111
6607	7.8	26 30.58	1.6335	0.0022	53 17 8.3	11.964	0.186	76.8	487 488	53 2421
6608	8.8	26 34.57	1.5313	0.0037	55 9 25.8	11.969	0.174	77.7	574 575	55 2414
6609	9.0	26 44.86	1.6916	0.0014	52 10 8.1	11.981	0.193	79.8	432 434 738 739	52 2732
6610	9.4	26 47.02	1.6142	0.0025	53 40 34.4	11.984	0.183	81.9 80.7	123 822 885α 887	53 2424
6611	7.2	20 26 53.74	+1.7069	−0.0012	+ 51 52 24.8	+11.992	+0.194	83.8	730 731	51 2880
6612	7.4	26 59.66	1.5838	0.0029	54 15 25.0	11.998	0.180	77.7	566 567	54 2362
6613	8.8	27 2.40	1.6723	0.0017	52 34 48.4	12.002	0.190	76.8	489 490	52 2735
6614	8.6	27 7.74	1.5674	0.0032	54 33 54.8	12.008	0.178	77.7	576 577	54 2363
6615	8.5	27 8.14	1.7771	0.0004	50 25 4.7	12.008	0.202	71.7	116 118 120	50 3112
6616	8.8	20 27 16.86	+1.5899	−0.0028	+ 54 10 17.0	+12.019	+0.181	79.0 77.3	5 obs. [2]	54 2364
6617	9.2	27 20.85	1.5869	0.0029	54 13 53.1	12.023	0.180	77.7	574 575	54 2365
6618	8.4	27 26.06	1.7252	0.0010	51 32 46.1	12.029	0.196	75.8	117 580 583	51 2881
6619	8.0	27 45.20	1.5923	0.0028	54 10 5.9	12.052	0.180	81.3	487 488 888 899	54 2368
6620	6.2	27 46.97	1.7103	0.0012	51 53 5.2	12.054	0.194	75.1	118 489 490	51 2882
6621	9.4	20 27 52.78	+1.6624	−0.0018	+ 52 51 4.0	+12.060	+0.188	75.8	432 434	[52 2738]
6622	8.8	27 57.47	1.5529	0.0034	54 53 55.8	12.066	0.176	77.7	566 567	54 2369
6623	9.5	28 4.29	1.6132	0.0026	53 48 33.9	12.074	0.182	71.8	121 122 123	53 2429
6624	...	28 12.08	1.6667	0.0017	52 47 43.2	12.083	0.189	85.8	893 898	52 2740
6625	9.8	28 12.40	1.7093	0.0012	51 56 37.1	12.083	0.194	83.8	738 739	[51 2884]
6626	8.4	20 28 12.71	+1.7123	−0.0011	+ 51 52 59.4	+12.084	+0.194	79.8	120 730 731	51 2885
6627	8.1	28 21.10	1.6203	0.0024	53 42 5.6	12.093	0.183	77.4	488 574 575	53 2430
6628	7.7	28 54.54	1.6214	0.0024	53 43 51.4	12.132	0.183	71.8	121 122 123	53 2433
6629	8.9	29 4.96	1.6872	0.0014	52 28 14.0	12.144	0.190	77.7	566 567	52 2742
6630	7.8	29 13.80	1.6814	0.0015	52 35 56.5	12.155	0.190	72.8	191 192	52 2744
6631	9.0	20 29 33.05	+1.7593	−0.0006	+ 51 1 30.6	+12.177	+0.199	74.8	116 432 433 434	50 3122
6632	9.0	29 43.41	1.7955	0.0001	50 15 22.1	12.189	0.203	76.8	489 490	50 3124
6633	7.2	29 45.49	1.6096	0.0025	54 1 46.6	12.191	0.181	76.8	487 488	53 2435
6634	9.2	29 51.18	1.6272	0.0023	53 42 24.7	12.198	0.183	74.7	121 122 572 573	53 2436
6635	7.5	29 54.66	1.6957	0.0014	52 22 35.7	12.202	0.191	78.2	566 567 679 680	52 2746
6636	6.6	20 30 4.12	+1.5925	−0.0028	+ 54 22 25.7	+12.213	+0.179	77.7	574 575	54 2374
6637	8.9	30 4.13	1.7938	0.0002	50 19 33.2	12.213	0.202	77.2	494 495 570 571	50 3129
6638	8.5	30 10.29	1.6635	0.0018	53 2 20.1	12.220	0.187	77.8	584 589 591	52 2748
6639	9.1	30 11.08	1.7563	0.0006	51 8 50.6	12.221	0.198	75.7	117 576 577	51 2888
6640	7.3	30 14.23	1.6961	0.0013	52 23 53.5	12.225	0.191	82.7	680 738 739 822	52 2749
6641	9.0	20 30 20.44	+1.7730	−0.0004	+ 50 48 14.2	+12.232	+0.200	77.8	578 579	50 3132
6642	9.4	30 21.68	1.7620	0.0005	51 2 30.4	12.233	0.198	73.8	118 120 433 434	50 3133
6643	8.9	30 23.83	1.6081	0.0026	54 6 56.0	12.236	0.180	77.8	580 581	54 2375
6644	7.0	30 26.26	1.7083	0.0012	52 10 12.0	12.239	0.192	72.8	191 192	52 2750
6645	9.3	30 59.32	1.7382	0.0008	51 36 21.4	12.277	0.195	83.8	730 731	51 2892
6646	9.2	20 31 5.60	+1.6094	−0.0025	+ 54 9 16.9	+12.284	+0.180	76.8	487 488	54 2378
6647	6.5	31 12.00	1.7478	0.0007	51 25 25.2	12.291	0.196	76.8	489 490	51 2895
6648	9.2	31 14.51	1.7548	0.0006	51 16 47.2	12.294	0.197	77.7	566 567	51 2896
6649	8.5	31 19.15	1.5738	0.0031	54 49 39.4	12.300	0.176	77.7	572 573	54 2379
6650	9.5	31 20.78	1.7228	0.0010	51 57 30.2	12.301	0.193	85.6	887	51 2898

[1] Z. 489 490 494 495 566 567 [2] Z. 487 488 578 579 899α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6651	9.5	20h 31m 23.55	+1.7401	−0.0008	+ 51°36′ 13.3	+12.305	+0.195	77.8	576 580 581	51°2900
6652	9.1	31 24.46	1.6509	−0.0020	53 23 56.7	12.306	0.185	71.8	121 122 123	53 2438
6653	8.8	31 25.45	1.7232	−0.0010	51 57 26.9	12.307	0.193	80.6	7 obs. [1]	51 2901
6654	7.2	31 45.98	1.8168	+0.0002	49 58 29.2	12.331	0.204	77.8	578 579	49 3321
6655	9.0	31 56.72	1.6781	−0.0016	52 55 2.8	12.343	0.187	72.8	191 192	52 2755
6656	8.5	20 31 56.99	+1.8082	0.0000	+ 50 11 2.8	+12.343	+0.202	73.8	118 120 432 434	50 3140
6657	7.8	32 13.16	1.8048	0.0000	50 17 14.0	12.362	0.202	83.8	730 731	50 3141
6658	9.0	32 19.25	1.6281	−0.0022	53 55 9.0	12.369	0.182	71.8	121 122 123	53 2440
6659	8.8	32 20.51	1.7704	−0.0004	51 3 3.8	12.370	0.198	77.7	574 575	50 3142
6660	9.1	32 23.78	1.6159	−0.0024	54 9 16.8	12.374	0.180	76.8	487 488	54 2382
6661	8.4	20 32 31.20	+1.6230	−0.0023	+ 54 1 59.8	+12.382	+0.181	77.7	567 576 577	53 2441
6662	8.5	32 39.03	1.7873	−0.0002	50 42 48.3	12.391	0.200	77.4	495 570 571	50 3143
6663	8.9	32 43.71	1.7968	−0.0001	50 30 43.8	12.397	0.201	80.6	5 obs. [2]	50 3144
6664	8.8	32 45.50	1.6838	−0.0015	52 52 54.5	12.399	0.188	81.3 79.8	489 490 889α 890	52 2759
6665	8.7	32 53.26	1.6649	−0.0017	53 15 57.6	12.408	0.185	77.7	572 573	53 2443
6666	7.6	20 32 57.98	+1.8005	0.0000	+ 50 27 16.6	+12.413	+0.201	71.7	118 119 120	50 3145
6667	8.8	33 5.70	1.6852	−0.0014	52 53 7.8	12.422	0.188	85.8	889 890	52 2760
6668	8.5	33 14.54	1.8087	+0.0001	50 17 56.0	12.432	0.202	83.8	730 731	50 3146
6669	9.2	33 26.08	1.7903	−0.0001	50 43 27.1	12.445	0.200	77.2	494 495 566 567	50 3148
6670	8.8	33 39.69	1.6881	−0.0014	52 52 50.3 [3]	12.461	0.187	72.8	191 192	— —
6671	6.6	20 33 39.86	+1.7052	−0.0012	+ 52 32 13.4	+12.461	+0.189	76.8	489 490	52 2761
6672	8.5	33 55.51	1.7731	−0.0003	51 8 39.8	12.479	0.197	74.1	5 obs. [4]	51 2910
6673	9.3	34 3.21	1.6288	−0.0022	54 4 5.5	12.488	0.180	71.8	121 122 123	53 2446
6674	8.0	34 4.34	1.7792	−0.0002	51 1 39.4	12 489	0.198	75.8	432 434	50 3149
6675	8.8	34 10.37	1.7961	0.0000	50 40 6.3	12.496	0.200	80.9	6 obs. [5]	50 3150
6676	8.4	20 34 12.04	+1.6637	−0.0018	+ 53 24 45.3	+12.498	+0.184	76.8	487 488	53 2447
6677	8.6	34 15.06	1.6705	−0.0016	53 17 9.1	12.501	0.185	77.7	570 571	53 2448
6678	9.0	34 23.04	1.5724	−0.0033	55 8 9.4	12.510	0.174	77.7	572 573	55 2440
6679	6.8	34 28.21	1.7558	−0.0005	51 34 5.0	12.516	0.195	83.8	730 731	51 2911
6680	9.2	34 30.89 [6]	1.6315	−0.0022	54 3 38.5	12.519	0.180	80.0	574 575 822	53 2449
6681	8.9	20 34 42.20	+1.6084	−0.0026	+ 54 30 40.4	+12.532	+0.178	77.7	576 577	54 2386
6682	7.4	34 43.35	1.7393	−0.0007	51 56 18.7	12.533	0.192	75.8	432 434	51 2914
6683	9.2	34 55.38	1.5949	−0.0028	54 46 47.4	12.547	0.176	77.7	570 571	54 2387
6684	8.8	35 10.32	1.7955	0.0000	50 46 47.7	12.564	0.199	74.7	118 119 120 730	50 3153
6685	8.8	35 13.97	1.8015	0.0000	50 39 13.4	12.568	0.199	76.8	489 490	50 3155
6686	9.2	20 35 18.63	+1.7123	−0.0011	+ 52 33 6.8	+12.574	+0.189	83.8	5 obs. [7]	52 2768
6687	8.4	35 30.62	1.7937	0.0000	50 51 9.7	12.587	0.198	85.4 85.2	5 obs. [8]	50 3159
6688	8.4	35 38.87	1.7716	−0.0003	51 20 49.4	12.597	0.196	75.8	433 434	51 2916
6689	9.1	35 54.61	1.6736	−0.0016	53 22 59.5	12.614	0.184	71.8	121 122 123	53 2452
6690	8.4	36 1.65	1.5913	−0.0028	54 56 57.8	12.622	0.174	77.7	570 571	54 2391
6691	9.6	20 36 5.70	+1.6432	−0.0020	+ 53 59 19.4	+12.627	+0.181	76.8	487 488	53 2455
6692	8.7	36 9.20	1.6506	−0.0019	53 51 15.2	12.631	0.182	77.7	572 573	53 2456
6693	9.4	36 12.35	1.7097	−0.0011	52 41 36.5	12.634	0.188	75.7	118 566 567	52 2772
6694	8.9	36 19.87 [9]	1.6993	−0.0012	52 54 51.7	12.643	0.187	84.8 84.5	740δ 742 885	52 2773
6695	8.5	36 37.88	1.6023	−0.0027	54 48 21.7	12.663	0.176	77.8	576 584 589 591	54 2393
6696	9.0	20 36 38.94	+1.6192	−0.0024	+ 54 29 42.8	+12.665	+0.178	77.8	580 581	54 2394
6697	8.9	36 46.42	1.6553	−0.0018	53 49 26.6	12.673	0.182	77.8	578 582 583	53 2458
6698	9.0	36 48.10	1.6458	−0.0020	54 0 33.8	12.675	0.180	71.8	121 122	53 2459
6699	7.2	37 11.56	1.6130	−0.0025	54 39 44.3	12.701	0.176	77.7	566 567	54 2396
6700	8.8	37 12.28	1.7158	−0.0010	52 40 0.7	12.702	0.188	76.5	5 obs. [10]	52 2775

[1] Z. 570 571 582 583 738 739 887

[2] Z. 432 434 732 734 735

[3] 52.8 47.8

[4] Z. 117 118 119 120 739

[5] Z. 495 566 567 740 742 885; Z. 888 8m9 10.69 2.4 (85.8) excl.

[6] 30.70 30.79 31.19

[7] Z. 732 734 735 738 739

[8] Z. 731 887 889α 896 898

[9] [20.57] 20.00 19.75

[10] Z. 118 119 120 730 731

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6701	8.9	$20^h\ 37^m\ 13^s.46$ [1]	+1ˢ.5852	−0ˢ.0029	+ 55° 10′ 29″.6	+12″.704	+0″.173	82.3	584 732 738 739	55° 2448
6702	7.8	37 17.47	1.6369	−0.0021	54 13 27.2	12.708	0.179	81.8	572 734 735	54 2397
6703	9.0	37 30.38	1.5980	−0.0027	54 58 11.9	12.723	0.174	77.8	576 589 591	54 2398
6704	9.2	37 51.52	1.6297	−0.0022	54 24 57.7	12.747	0.178	77.8	580 581	54 2401
6705	8.4	37 57.50	1.6644	−0.0017	53 45 47.9	12.753	0.182	71.8	121 122 123	53 2466
6706	9.0	20 38 10.75	+1.6859	−0.0014	+ 53 21 50.2	+12.768	+0.184	77.8	582 583	53 2467
6707	9.2	38 16.84	1.7089	−0.0011	52 54 46.9 [2]	12.775	0.186	72.8	191 192	— —
6708	8.7	38 16.87	1.7126	−0.0010	52 50 20.6	12.775	0.187	83.8	730 731	52 2778
6709	9.0	38 19.36	1.6920	−0.0013	53 15 24.7	12.778	0.185	77.7	566 567	53 2469
6710	8.9	38 21.57	1.6756	−0.0016	53 35 1.1	12.780	0.183	78.1	576 589 687	53 2470
6711	9.0	20 38 22.32	+1.7058	−0.0011	+ 52 59 5.2	+12.781	+0.186	79.5 79.8	6 obs. [3]	52 2779
6712	9.1	38 26.49	1.7061	−0.0011	52 59 7.7	12.786	0.186	77.1	494 495 578	52 2780
6713	8.6	38 26.92	1.6561	−0.0018	53 58 18.0	12.786	0.180	77.7	572 573	53 2471
6714	8.9	38 50.12	1.7010	−0.0012	53 7 39.5	12.812	0.185	77.7	574 575	53 2472
6715	8.8	38 51.39	1.7858	0.0000	51 21 37.4	12.814	0.195	75.8	432 433 434	51 2928
6716	8.2	20 38 59.26	+1.8219	+0.0003	+ 50 34 31.2	+12.823	+0.198	75.7 74.0	7 obs. [4]	50 3171
6717	8.0	39 3.98	1.7483	−0.0005	52 10 52.6	12.828	0.190	82.8	687 734 898	52 2783
6718	9.2	39 8.11	1.6768	−0.0015	53 38 11.3	12.833	0.182	71.8	121 122 123	53 2475
6719	8.2	39 9.30	1.7736	−0.0002	51 39 12.6	12.834	0.193	77.8	580 581	51 2929
6720	9.2	39 15.94	1.7234	−0.0009	52 43 0.6	12.841	0.187	83.8	731 738 739	52 2785
6721	8.5	20 39 17.98	+1.7626	−0.0003	+ 51 54 11.1	+12.844	+0.192	83.8	5 obs. [5]	51 2931
6722	9.3	39 19.84	1.8225	+0.0004	50 35 45.7	12.846	0.198	85.8	890	50 3176
6723	7.6	39 21.66	1.7658	−0.0003	51 50 24.0	12.848	0.192	79.3	7 obs. [6]	51 2932
6724	8.0	39 24.02	1.8185	+0.0004	50 41 38.5	12.850	0.198	80.0	576 577 822	50 3174
6725	9.2	39 25.77	1.7629	−0.0003	51 54 36.4	12.852	0.192	85.7	887 894	51 2933
6726	8.7	20 39 32.64	+1.7872	0.0000	+ 51 23 58.3	+12.860	+0.194	77.8	584 586 587	51 2934
6727	9.2	39 36.30	1.8410	+0.0006	50 12 20.6	12.864	0.200	77.8	589 591	50 3177
6728	8.8	39 36.58	1.6552	−0.0018	54 6 14.4	12.865	0.180	78.9	5 obs. [7]	54 2405
6729	9.6	39 41.56 [8]	1.6554	−0.0018	54 6 30.4	12.870	0.180	83.9 84.8	742 889δ	54 2406
6730	8.5	39 42.62	1.8014	+0.0002	51 6 18.9	12.871	0.196	75.8	432 433 434	51 2935
6731	9.0	20 39 49.69	+1.7688	−0.0002	+ 51 49 26.6	+12.879	+0.192	77.7	574 575	51 2937
6732	8.6	39 57.81	1.8186	+0.0004	50 44 59.5	12.888	0.198	76.5	5 obs. [9]	50 3179
6733	6.1	40 7.30	1.6189	−0.0024	54 50 25.7	12.899	0.174	83.8	731 732	54 2408
6734	9.0	40 8.66	1.8416	+0.0006	50 14 50.2	12.900	0.200	76.8	489 490	50 3181
6735	9.2	40 10.32	1.7225	−0.0008	52 49 35.2	12.902	0.187	77.7	576 577	52 2787
6736	8.9	20 40 12.52	+1.7515	−0.0005	+ 52 13 47.1	+12.905	+0.190	77.7	6 obs. [10]	52 2788
6737	8.8	40 20.30	1.6553	−0.0018	54 10 26.8	12.913	0.179	77.8	580 581	54 2409
6738	9.0	40 33.84	1.8390	+0.0006	50 21 3.7	12.928	0.199	77.8	578 579	50 3182
6739	8.5	40 34.56	1.7978	+0.0001	51 16 21.0	12.929	0.195	83.8	734 735	51 2940
6740	8.7	40 35.78	1.8122	+0.0003	50 57 21.6	12.930	0.196	80.8	586 587 730 731	50 3183
6741	8.8	20 40 42.62	+1.8296	+0.0005	+ 50 34 39.8	+12.938	+0.198	76.8	489 490	50 3184
6742	8.9	41 10.78	1.7868	0.0000	51 34 34.2	12.970	0.193	75.8	432 433 434	51 2942
6743	8.5	41 18.60	1.6669	−0.0016	54 2 52.0	12.978	0.180	77.7	566 567	53 2481
6744	9.0	41 22.68	1.8248	+0.0005	50 45 20.1	12.983	0.197	71.7	117 118 119 120	50 3189
6745	9.0	41 24.83	1.7123	−0.0010	53 9 36.1	12.985	0.185	77.7	570 571	53 2482
6746	9.1	20 41 39.39	+1.8451	+0.0007	+ 50 19 28.7	+13.001	+0.199	82.1	489 740 742 743	50 3190
6747	8.8	41 41.32	1.6191	−0.0024	54 59 31.6	13.003	0.174	78.2	572 573 685 686	54 2411
6748	9.0	41 46.74	1.6960	−0.0012	53 31 23.8	13.009	0.183	77.7	574 575	53 2484
6749	7.0	41 51.62	1.8507	+0.0008	50 13 2.4	13.015	0.200	77.8	578 579	50 3191
6750	8.4	41 57.04	1.6950	−0.0012	53 33 39.4	13.021	0.182	77.8	580 581	53 2485

[1] 13ˢ.22 13ˢ.42 13ˢ.77 13ˢ.45

[2] 43″.7 50″.2

[3] Z. 494 495 578 579α 732 734

[4] Z. 117 118 119 120 685 686 890α

[5] Z. 582 740 887 894 896

[6] Z. 494 495 578 579 583 744 745

[7] Z. 566 567 572 573 743

[8] 41ˢ.56 [49ˢ.91]

[9] Z. 118 119 120 738 739

[10] Z. 494 495 570 571 685 686

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6751	8.4	$20^h\,41^m\,59^s.17$	$+1^s.8474$	$+0^s.0008$	+ 50°18′ 23″.0	$+13''.023$	$+0''.199$	77.4	490 576 577	50°3192
6752	9.2	42 6.82	1.7488	−0.0005	52 28 52.5	13.032	0.188	83.8	730 731	[52 2793]
6753	8.6	42 7.63	1.7481	−0.0005	52 29 52.8	13.033	0.188	83.8	730 731	52 2794
6754	9.1	42 20.72	1.7227	−0.0008	53 2 40.8	13.047	0.185	77.4	495 566 567	52 2795
6755	8.4	42 23.02	1.7577	−0.0003	52 19 19.6	13.050	0.189	75.3	193 194 589 591	52 2796
6756	9.0	20 42 24.12	+1.8358	+0.0006	+ 50 36 49.4	+13.051	+0.198	74.8	118 119 120 735	50 3195
6757	8.5	42 29.51	1.7402	−0.0006	52 42 1.9	13.057	0.187	85.3	740 894 896 899	52 2797
6758	8.4	42 31.61	1.6795	−0.0015	53 55 31.6	13.059	0.180	77.7	570 571	53 2486
6759	9.0	42 32.26	1.6328	−0.0022	54 49 21.8	13.060	0.175	83.9	742 743	54 2413
6760	8.0	42 34.50	1.7332	−0.0006	52 51 7.4	13.062	0.186	77.8	578 579	52 2798
6761	...	20 42 34.74 [1]	+1.6794	−0.0014	+ 53 55 58.4	+13.063	+0.180	85.8	898 900	53 2486
6762	6.4	42 43.80	1.7490	−0.0004	52 32 27.9	13.073	0.188	76.8	489 490	52 2799
6763	8.5	43 1.87	1.7894	+0.0001	51 42 38.5	13.093	0.192	75.8	432 433 434	51 2950
6764	8.7	43 6.74	1.6558	−0.0018	54 26 43.3	13.098	0.178	77.7	575 576 577 581	54 2415
6765	8.4	43 9.01	1.6574	−0.0018	54 25 5.9	13.100	0.177	78.9	5 obs. [2]	51 2416
6766	9.0	20 43 15.49	+1.6621	−0.0017	+ 54 20 22.2	+13.108	+0.178	77.7	566 567 570 571	54 2417
6767	8.9	43 27.05	1.8535	+0.0009	50 19 13.3	13.120	0.199	76.5	5 obs. [3]	50 3197
6768	7.8	43 27.34	1.8086	+0.0003	51 20 6.1	13.121	0.194	75.8	6 obs. [4]	51 2951
6769	7.2	43 29.37	1.7713	−0.0001	52 8 56.2	13.123	0.190	83.8	734 735	52 2800
6770	8.3	43 47.74	1.8557	+0.0009	50 18 20.8	13.143	0.199	75.1	117 489 490	50 3201
6771	8.6	20 44 2.03	+1.8492	+0.0008	+ 50 28 51.2	+13.159	+0.198	75.8	433 434	50 3202
6772	6.0	44 9.10	1.7837	+0.0001	51 57 6.8	13.167	0.190	83.8	730 732	51 2954
6773	7.4	44 9.36	1.6262	−0.0022	55 6 31.2	13.167	0.173	77.7	574 575	55 2468
6774	8.8	44 19.90	1.7204	−0.0008	53 17 48.1	13.179	0.183	78.8	689 690	53 2492
6775	8.9	44 23.36	1.6505	−0.0018	54 40 33.4	13.182	0.176	76.8	491 492	54 2421
6776	9.0	20 44 35.50	+1.7109	−0.0009	+ 53 31 0.4	+13.196	+0.182	77.2	494 495 570 571	53 2493
6777	7.0	44 40.03	1.8716	+0.0011	50 1 42.0	13.201	0.200	77.8	578 [5]	49 3380
6778	6.2	44 56.35	1.8107	+0.0004	51 26 50.2	13.219	0.193	81.6	5 obs. [6]	51 2957
6779	9.1	44 56.87	1.8462	+0.0008	50 38 54.6	13.219	0.197	73.8	118 119 433 434	50 3208
6780	7.9	44 58.33	1.7165	−0.0008	53 26 36.0	13.221	0.182	77.7	576 577	53 2495
6781	8.9	20 45 6.16	+1.7083	−0.0010	+ 53 37 20.1	+13.229	+0.181	77.8	567 589 591	53 2496
6782	6.7	45 35.53	1.7036	−0.0010	53 45 59.4	13.262	0.181	77.3	494 495 578 579	53 2497
6783	8.8	45 38.22	1.6971	−0.0012	53 54 4.7	13.265	0.180	77.7	570 571	53 2499
6784	7.7	45 40.18	1.8638	+0.0010	50 19 6.8	13.267	0.198	80.8	117 733 734 735	50 3209
6785	8.6	45 42.82	1.8740	+0.0012	50 5 6.5	13.269	0.199	76.0	118 489 574 575	50 3210
6786	8.6	20 45 45.22	+1.6896	−0.0012	+ 54 3 45.2	+13.272	+0.180	77.7	576 577	53 2501
6787	6.8	45 46.42	1.8412	+0.0008	50 51 2.4	13.273	0.196	76.8	491 492	50 3211
6788	9.0	46 7.54	1.8391	+0.0008	50 56 13.2	13.296	0.195	75.8	433 434	50 3213
6789	9.1	46 19.20	1.7804	+0.0001	52 15 13.5	13.309	0.189	80.1	192 730 732	52 2809
6790	7.9	46 22.41	1.7869	+0.0002	52 7 15.0	13.313	0.189	75.2	5 obs. [7]	52 2810
6791	8.7	20 46 38.04	+1.6772	−0.0014	+ 54 23 47.4	+13.330	+0.177	77.7	574 575	54 2425
6792	8.8	46 41.50	1.7547	−0.0002	52 50 22.0	13.334	0.185	75.8	433 434	[52 2814]
6793	8.5	47 2.10	1.7565	−0.0002	52 50 16.4	13.356	0.184	75.8	433 434	52 2817
6794	6.7	47 14.42	1.8440	+0.0009	50 56 50.5	13.369	0.195	76.5	5 obs. [8]	50 3215
6795	7.4	47 14.70	1.6724	−0.0015	54 33 19.4	13.370	0.176	77.7	566 567	54 2426
6796	7.4	20 47 19.76	+1.8005	+0.0004	+ 51 55 38.5	+13.375	+0.190	82.6 83.3	5 obs. [9]	51 2962
6797	9.3	47 25.68	1.8006	+0.0003	51 56 16.2	13.382	0.190	78.8	689 690 692	— —
6798	9.0	47 37.72	1.8236	+0.0006	51 26 55.6	13.395	0.192	76.5	433 491 492	51 2964
6799	9.5	47 40.31	1.6753	−0.0014	54 32 34.6	13.398	0.176	77.7	576 577	54 2428
6800	8.0	47 43.72	1.6507	−0.0018	55 1 12.2	13.401	0.173	77.8	578 579	54 2429

[1] $34^s.97\ 34^s.51$

[2] Z. 575 576 577 580 730

[3] Z. 118 119 120 738 739

[4] Z. 193 194 494 495 582 583

[5] Z. 579 dupl. 8.6 & 8.6 med. $40^s.10\ 41''.7$ (Ep. 77.8)

[6] Z. 192 732 733 734 735

[7] Z. 193 194 491 494 495

[8] Z. 118 119 120 733 734

[9] Z. 690 730 740 746 900δ

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6801	9.2	20h 47m 48.26	+1.8017	+0.0004	+ 51°57′16.6	+13.406	+0.190	78.8	689 691α 692	51° 2965
6802	7.8	47 51.72	1.7233	−0.0007	53 36 46.6	13.410	0.181	77.3	494 495 580 581	53 2505
6803	9.0	47 53.98	1.7252	−0.0006	53 34 41.5	13.412	0.181	77.8	589 591	53 2506
6804	9.0	47 54.27	1.7253	−0.0006	53 34 31.6	13.413	0.181	77.8	589 591	
6805	9.1	47 58.54	1.6687	−0.0015	54 42 11.9	13.417	0.175	77.8	585 586 587	54 2430
6806	8.8	20 48 6.68	+1.8269	+0.0007	+ 51 25 45.4	+13.426	+0.192	75.8	433 434	51 2967
6807	9.4	48 10.20	1.8539	+0.0010	50 49 17.8	13.430	0.195	75.1	117 489 490	50 3217
6808	8.8	48 25.61	1.8833	+0.0014	50 9 45.0	13.447	0.198	78.1	6 obs. [1]	50 3220
6809	9.4	48 36.37	1.7796	+0.0002	52 31 12.2	13.458	0.187	80.1	192 733 734	52 2823
6810	9.1	48 39.68	1.7953	+0.0004	52 11 15.3	13.462	0.188	75.5	194 491 492	52 2824
6811	8.6	20 48 41.72	+1.6903	−0.0012	+ 54 21 38.4	+13.464	+0.177	77.2	494 495 566 567	54 2431
6812	6.6	48 50.69	1.6799	−0.0013	54 34 45.8	13.474	0.176	77.7	573 575	54 2433
6813	8.5	48 52.36	1.7009	−0.0010	54 10 13.6	13.476	0.178	77.7	576 577	54 2432
6814	8.8	49 1.83	1.8864	+0.0014	50 9 22.6	13.486	0.198	84.6 84.8	5 obs. [2]	50 3222
6815	8.6	49 29.74	1.8950	+0.0015	50 0 14.8	13.516	0.198	77.8	578 579	49 3405
6816	6.7	20 49 44.08	+1.7122	−0.0008	+ 54 2 18.1	+13.531	+0.178	74.0	5 obs. [3]	53 2511
6817	8.9	49 58.49	1.8643	+0.0012	50 46 58.2	13.547	0.195	73.3	5 obs. [4]	50 3223
6818	9.0	49 59.62	1.6649	−0.0016	54 59 30.0	13.548	0.173	76.8	6 obs. [5]	54 2438
6819	8.6	50 10.82	1.6980	−0.0010	54 22 5.2	13.560	0.177	77.7	566 567	54 2439
6820	9.0	50 19.02	1.7669	0.0000	52 58 38.3	13.569	0.184	80.1	192 732 736	52 2831
6821	7.8	20 50 19.32	+1.8972	+0.0016	+ 50 2 42.0	+13.569	+0.198	77.8	578 579	49 3410
6822	9.1	50 21.34	1.7134	−0.0008	54 4 52.2	13.571	0.178	77.7	573 575	54 2440
6823	9.2	50 39.37	1.8568	+0.0012	51 1 53.9	13.591	0.193	79.8	117 733 734	50 3225
6824	7.8	50 42.67	1.7540	−0.0002	53 17 28.2	13.594	0.182	74.8	337 338 339	53 2514
6825	9.3	51 0.68	1.7635	0.0000	53 7 31.3	13.614	0.183	76.1	194 576 577	53 2515
6826	8.2	20 51 6.50	+1.7157	−0.0007	+ 54 7 3.3	+13.620	+0.178	77.2	5 obs. [6]	54 2441
6827	8.8	51 21.97	1.7592	0.0000	53 15 22.9	13.636	0.182	77.7	573 575	53 2516
6828	9.1	51 25.21	1.7222	−0.0006	54 1 20.9	13.640	0.178	83.3	5 obs. [7]	53 2517
6829	9.2	51 35.62	1.7434	−0.0003	53 36 30.8	13.651	0.180	77.7	576 577	53 2518
6830	8.8	51 58.43	1.7038	−0.0009	54 27 4.0	13.675	0.176	76.8	489 490	54 2442
6831	9.0	20 52 0.22	+1.6690	−0.0014	+ 55 7 54.4	+13.677	+0.172	77.8	578 579	55 2488
6832	8.2	52 2.39	1.7593	0.0000	53 19 40.3	13.680	0.182	74.8	337 338 339	53 2520
6833	5.8	52 17.22	1.8835	+0.0015	50 35 42.6	13.695	0.195	73.8	118 119 433 434	50 3232
6834	9.5	52 19.06	1.7890	+0.0004	52 43 47.1	13.697	0.185	81.0	192 732 733 734	52 2834
6835	6.1	52 27.59	1.8988	+0.0017	50 14 56.2	13.706	0.196	76.8	491 492	50 3233
6836	8.9	20 52 47.52	+1.7570	0.0000	+ 53 27 35.3	+13.728	+0.181	77.2	494 495 566 567	53 2521
6837	8.9	52 50.17	1.8095	+0.0007	52 20 35.4	13.730	0.186	75.2	193 194 573 575	52 2836
6838	8.9	52 55.25	1.8505	+0.0012	51 26 4.1	13.736	0.191	83.8	732 733 734	51 2973
6839	9.0	53 4.25	1.7647	+0.0001	53 19 49.8	13.745	0.182	74.8	337 338 339	53 2523
6840	8.6	53 23.51	1.7760	+0.0003	53 7 40.2	13.766	0.182	77.8	578 579	53 2525
6841	9.2	20 53 28.36	+1.8898	+0.0017	+ 50 34 56.5	+13.771	+0.194	73.7	5 obs. [8]	50 3235
6842	9.2	53 36.18	1.6722	−0.0014	55 14 43.8	13.779	0.171	78.8	687 688	[55 2491]
6843	8.8	53 49.90	1.9184	+0.0020	49 56 6.1	13.794	0.197	76.8	433 434 566 567	49 3424
6844	8.8	53 56.97	1.6555	−0.0013	55 13 54.9	13.801	0.171	78.8	687 688	55 2493
6845	9.0	53 59.50	1.6657	−0.0011	55 2 36.3	13.804	0.172	85.2	743 889 890	54 2451
6846	8.6	20 54 6.88	+1.9010	+0.0018	+ 50 23 16.5	+13.812	+0.195	83.8	732 733 734	50 3236
6847	6.5	54 17.28	1.6887	−0.0011	55 0 13.1	13.823	0.172	76.2	7 obs. [9]	54 2452
6848	9.0	54 18.29	1.8308	+0.0010	52 2 20.0	13.824	0.187	72.8	191 192	51 2975
6849	8.9	54 29.82	1.7037	−0.0008	54 44 2.3	13.836	0.174	82.1	490 736 737 744	54 2453
6850	6.0[10]	54 29.88	1.9198	+0.0020	49 58 38.0	13.836	0.197	77.8	578 579	49 3426

[1] Z. 118 119 120 730 732 890
[2] Z. 732 733α 734 890 901
[3] Z. 193 194 337 338 339
[4] Z. 118 119 120 433 434
[5] Z. 489 490 491 492 494 495
[6] Z. 492 494 495 566 567
[7] Z. 491 740 743 889 900
[8] Z. 117 118 119 489 490
[9] Z. 337 338 339 491 495 573 575
[10] Dupl. med., magn. from Z. 578; 579 $7^m.2$ & $8^m.0$

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6851	8.8	$20^h\ 54^m\ 31^s.02$	+1ˢ.7643	+0ˢ.0001	+ 53°30′ 12″.3	+13″.837	+0″.180	75.3	193 194 580 581	53°2527
6852	9.6	54 55.21	1.9130	+0.0021	50 11 31.9	13.863	0.196	76.6	118 119 120 733 740	50 3240
6853	8.1	54 56.77	1.6842	−0.0011	55 9 54.2	13.864	0.171	77.7	566 567	55 2495
6854	8.9	54 59.60	1.8432	+0.0012	51 50 20.4	13.867	0.188	83.8	730 732	51 2978
6855	9.0	55 37.40	1.9254	+0.0022	49 58 26.4	13.907	0.196	75.8	433 434	49 3433
6856	9.1	20 55 38.94	+1.8325	+0.0011	+ 52 9 24.0	+13.909	+0.186	75.4	192 193 494 495 567	52 2845
6857	9.2	56 11.87[1]	1.6979	−0.0009	55 2 20.4	13.943	0.172	85.3	742 890 891 893	54 2455
6858	7.1	56 15.40	1.7139	−0.0006	54 43 48.8	13.947	0.171	76.3	437 438 489 490	54 2456
6859	9.0	56 17.81	1.6980	−0.0009	55 2 57.6	13.949	0.172	80.8	7 obs. [2]	[54 2457]
6860	8.6	56 25.03	1.8352	+0.0012	52 11 8.4	13.957	0.186	81.8	566 730 732	52 2846
6861	9.2	20 56 36.24	+1.9286	+0.0022	+ 50 0 38.8	+13.969	+0.196	75.8	433 434	49 3437
6862	9.1	56 47.90	1.8248	+0.0010	52 27 48.2	13.981	0.185	76.1	192 566 567	52 2847
6863	9.0	56 56.55	1.7519	0.0000	54 2 24.3	13.990	0.177	76.8	337 578 579	53 2533
6864	8.8	57 4.31	1.8955	+0.0019	50 52 10.8	13.998	0.192	75.2 74.9	7 obs. [3]	50 3244
6865	9.2	57 4.60	1.7240	−0.0004	54 37 20.6	13.998	0.174	77.8	580 581	54 2460
6866	9.2	20 57 5.10[4]	+1.8945	+0.0019	+ 50 53 41.9	+13.999	+0.192	84.5	733 734 894	50 3245
6867	8.8	57 6.84	1.8154	+0.0009	52 42 28.7	14.001	0.183	76.4	194 494 495 573 575	52 2850
6868	9.0	57 10.92	1.9158	+0.0021	50 23 32.0	14.005	0.194	77.8	582 583	50 3246
6869	7.1	57 16.83	1.8634	+0.0015	51 38 47.6	14.011	0.188	75.8	433 434	51 2982
6870	8.9	57 30.68	1.7268	−0.0004	54 36 58.2	14.026	0.174	75.8	127 438 578 579	54 2462
6871	9.0	20 57 57.07	+1.7660	+0.0003	+ 53 51 50.9	+14.053	+0.178	80.2	337 338 730 736 737	53 2535
6872	9.4	58 18.66	1.9221	+0.0023	50 22 32.8	14.076	0.193	76.5	118 119 120 733 734	50 3250
6873	9.2	58 26.72	1.9000	+0.0020	50 55 33.0	14 084	0.191	83.8	730 732	50 3251
6874	8.4	58 32.34	1.8509	+0.0014	52 4 56.9	14.090	0.186	73.8	6 obs. [5]	52 2854
6875	8.7	58 39.02	1.8476	+0.0014	52 10 18 9	14.097	0.186	76.8	489 490	52 2855
6876	8.7	20 59 8.27	+1.8451	+0.0014	+ 52 17 12.4	+14.127	+0.185	77.2	494 495 573 575	52 2857
6877	8.2	59 18.16	1.9298	+0.0024	50 18 23.8	14.137	0.193	76.5	117 119 120 730 732	50 3256
6878	9.0	59 19.36	1.7660	+0.0003	54 1 30.5	14.138	0.177	71.8	125 127	53 2538
6879	8.8	59 50.58	1.7783	+0.0005	53 49 44.5	14.171	0.177	74.8	337 338	53 2539
6880	8.1	59 54.50	1.7956	+0.0008	53 28 6.2	14.175	0.179	77.4	8 obs. [6]	53 2540
6881	6.0	20 59 58.54	+1.8271	+0.0012	+ 52 47 19.6	+14.179	+0.182	72.8	191 192	52 2859
6882	8.4	21 0 0.74	1.7963	+0.0008	53 27 58.0	14.181	0.179	77.4	8 obs. [7]	53 2541
6883	7.8	0 4.43	1.7787	+0.0005	53 50 51.0	14.185	0.177	71.8	125 127	53 2542
6884	8.8	0 15.73	1.8523	+0.0016	52 15 34.2	14.197	0.185	78.4	193 194 740 742	52 2862
6885	7.4	0 15.80	1.7369	−0.0001	54 44 2.4	14.197	0.173	75.8	437 438	54 2470
6886	8.0	21 0 30.80	+1.9366	+0.0026	+ 50 17 13.2	+14.212	+0.193	76.5	118 119 120 730 732	50 3259
6887	8.2	0 31.38	1.9493	+0.0027	49 58 21.8	14.213	0.194	77.8	581 582 583	49 3455
6888	7.5	0 40.72	1.8701	+0.0018	51 54 6.6	14.222	0.186	75.8	433 434 435 436	51 2991
6889	9.7	0 59.04	1.8481	+0.0015	52 26 27 5	14.241	0.184	77.1	490 494 575	52 2864
6890	8.4	1 12.67	1.9254	+0.0024	50 39 2.7	14.255	0.191	77.8	118 120 733 734	50 3260
6891	7.4	21 1 13.05	+1.7249	−0.0003	+ 55 5 18.8	+14.256	+0.171	77.8	578 579	55 2514
6892	9.2	1 19.94	1.9518	+0.0028	50 0 31.3	14.263	0.194	77.0	433 434 580 584 585	49 3459
6893	9.2	1 27.73	1.7916	+0.0008	53 44 26.6	14.271	0.177	71.8	125 127	53 2545
6894	9.3	1 41.48	1.8764	+0.0019	51 52 40.0	14.285	0.186	83.8	730 732	51 2993
6895	7.7	1 43.19	1.8195	+0.0012	53 10 5.6	14.286	0.180	73.8	193 194 337 338	53 2546
6896	8.3	21 1 47 08	+1.8666	+0.0018	+ 52 7 6.5	+14.290	+0.185	74.3	191 192 435 436	52 2868
6897	...	2 12.26	1.7880	+0.0008	53 54 30.8	14.316	0.176	85.9	900	53 2547
6898	9.0	2 13.18	1.7863	+0.0007	53 56 44.2	14.317	0.176	77.3	494 495 578 579	53 2548
6899	8.8	2 16.80	1.7906	+0.0008	53 51 42.2	14.321	0.177	78.3	6 obs. [8]	53 2549
6900	9.2	2 22.86	1.8476	+0.0016	52 37 29.2	14.327	0.182	75.8	435 436	52 2869

[1] 12ˢ.02 12ˢ.15 11ˢ.69 11ˢ.64

[2] Z. 337 338 339 740 890 891 893

[3] Z. 117 118 119 120 489α 490 889

[4] 5ˢ.12 5ˢ.32 4ˢ.86

[5] Z. 191 192 193 194 433 434

[6] Z. 490 494 495 575 578 579 580 581

[7] Z. 490 494 495 575 578 579 580 581

[8] Z. 437 438 490 580 581 893

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6901	8.6	21h 2m32ˢ.24	+1ˢ.8079	+0ˢ.0010	+ 53°31′13″.8	+14″.337	+0″.178	71.8	125 127	53° 2551
6902	8.1	2 40.38	1.9216	0.0025	50 55 26.6	14.345	0.190	71.7	117 118 119 120	50 3264
6903	9.1	2 42.73	1.9623	0.0029	49 55 1.6	14.347	0.193	76.8	433 434 573 575	49 3464
6904	7.7	2 50.22	1.8006	0.0010	53 42 55.6	14.355	0.177	74.8	337 338	53 2552
6905	9.0	2 51.02	1.7982	0.0009	53 46 5.7	14.356	0.177	77.8	582 583	53 2553
6906	9.0	21 2 52.12	+1.8986	+0.0022	+ 51 30 8.2	+14.357	+0.187	83.8	730 732	51 2995
6907	8.3	2 58.31	1.8136	0.0012	53 27 2.6	14.363	0.178	74.3	193 194 437 438	53 2554
6908	9.0	3 22.76	1.8995	0.0023	51 32 40.9	14.388	0.187	72.8	191 192	51 2997
6909	7.8	3 23.77	1.9221	0.0026	51 0 8.1	14.389	0.189	81.6	342 740 742 743	50 3267
6910	7.9	3 35.90	1.7678	0.0005	54 30 3.3	14.401	0.173	71.8	125 127	54 2476
6911	7.8	21 3 35.94	+1.9200	+0.0025	+ 51 4 47.2	+14.401	+0.188	80.8	341 730 732	51 2998
6912	9.0	3 41.96	1.7765	0.0007	54 19 52.4	14.407	0.174	77.3	494 495 578 579	54 2477
6913	9.2	3 50.97	1.8346	0.0015	53 5 44.6	14.417	0.180	80.3	337 890	[53 2556]
6914	9.2	4 3.58	1.7333	0.0000	55 15 41.7	14.429	0.169	75.8	433 434	55 2526
6915	9.4	4 12.34	1.8363	0.0015	53 6 14.1	14.438	0.180	82.1 81.5	7 obs. [1]	53 2557
6916	8.9	21 4 15.58	+1.9573	+0.0030	+ 50 14 25.7	+14.442	+0.192	76.5	5 obs. [2]	50 3269
6917	9.7	4 18.02	1.8814	0.0021	52 5 18.0	14.444	0.184	77.8	435 581 691 692	52 2872
6918	9.5	4 22.36	1.8501	0.0017	52 48 55.3	14.448	0.181	78.8	693 695 696	[52 2873]
6919	6.8	4 25.52	1.8546	0.0018	52 43 9.5	14.452	0.181	75.3	193 194 578 579	52 2874
6920	9.6	4 34.92	1.8517	0.0018	52 48 14.8	14.461	0.181	78.2	5 obs. [3]	52 2876
6921	8.8	21 4 35.54	+1.8367	+0.0016	+ 53 8 33.4	+14.462	+0.179	80.3	437 438 743 891	53 2559
6922	8.5	4 42.89	1.8316	0.0015	53 16 15.3	14.469	0.179	76.5	125 127 889	53 2560
6923	9.0	4 44.83	1.9172	0.0026	51 17 37.5	14.471	0.187	79.3	341 342 730 732	51 3000
6924	8.8	5 1.62	1.9201	0.0026	51 15 33.6	14.488	0.187	83.9	740 742 743	51 3001
6925	8.6	5 21.56	1.8421	0.0017	53 7 2.2	14.508	0.179	74.8	337 338	53 2561
6926	9.1	21 5 24.92	+1.8092	+0.0012	+ 53 50 51.6	+14.512	+0.176	75.8	435 436	53 2562
6927	8.6	5 49.86	1.7665	0.0006	54 48 10.5	14.537	0.171	71.8	125 127	54 2484
6928	7.4	5 50.16	1.7479	0.0003	55 11 2.9	14.537	0.169	77.8	573 575 578 579	55 2534
6929	8.8	5 52.04	1.7800	0.0008	54 31 37.0	14.539	0.172	75.8	437 438	54 2485
6930	8.9	5 54.57	1.9342	0.0028	51 1 34.2	14.541	0.188	73.3	5 obs. [4]	50 3273
6931	8.2	21 6 2.22	+1.8407	+0 0017	+ 53 14 3.2	+14.549	+0.178	74.8	6 obs. [5]	53 2563
6932	8.8	6 7.26	1.8705	0.0021	52 34 13.4	14.554	0.181	74.1 74.8	191 192α 490	52 2879
6933	9.0	6 10.19	1.7489	0.0003	55 12 18.0	14.557	0.169	83.9	740 742 743	55 2536
6934	8.1	6 20.00	1.8995	0.0024	51 55 11.8	14.567	0.184	76.8	494 495	51 3008
6935	6.0	6 23.74	1.8508	0.0018	53 3 12.6	14.571	0.179	74.8	341 342	52 2880
6936	8.6	21 6 40.16	+1.9805	+0.0034	+ 49 57 27.5	+14.587	+0.192	75.8	433 434	49 3473
6937	8.4	7 16.33	1.7771	0.0008	54 45 44.1	14.623	0.171	74.5	125 437 438	54 2488
6938	7.6	7 20.28[6]	1.7747	0.0008	54 49 16.2	14.627	0.171	83.9 80.9	127δ 740 742 743	54 2489
6939	8.4	7 30.57	1.8326	0.0016	53 36 10.2	14.637	0.176	73.8	193 194 338 340	53 2566
6940	7.8	7 33.62	1.8186	0.0015	53 54 50.8	14.640	0.175	75.8	435 436	53 2567
6941	8.6	21 7 42.48	+1.9239	+0.0028	+ 51 30 39.6	+14.649	+0.185	75.8	341 342 494 495	51 3011
6942	9.2	7 47.63	1.9795	0.0035	50 7 53.5	14.654	0.191	77.8	6 obs. [7]	50 3279
6943	7.0	7 47.67	1.8508	0.0019	53 14 1.1	14.654	0.177	76.8	490 491 492	53 2568
6944	8.9	8 15.26	1.8254	0.0016	53 51 18.6	14.682	0.175	77.8	573 575 580 581	53 2569
6945	7.2	8 25.16	1.8506	0.0020	53 19 0.8	14.692	0.177	75.8	435 436	53 2570
6946	8.9	21 8 30.76	+1.7818	+0.0009	+ 54 49 15.6	+14.697	+0.170	71.8	125 127	54 2490
6947	8.2	8 37.78	1.8488	0.0019	53 23 3.3	14.704	0.177	75.5	338 340 490	53 2571
6948	8.5	8 37.82	1.8124	0.0014	54 11 10.0	14.704	0.173	75.8	437 438	54 2491
6949	8.5	8 40.56	1.8234	0.0016	53 57 9.6	14.707	0.174	77.8	578 579	53 2572
6950	8.0	8 44.29	1.9375	0.0031	51 18 46.4	14.711	0.186	83.8	730 732	51 3014

[1] Z. 337 338 740 742 890 893α 894
[2] Z. 118 119 120 733 734
[3] Z. 494 585 693 695 696
[4] Z. 118 119 120 433 434
[5] Z. 193 194 337 338 491 492
[6] [19ˢ.87] 20ˢ.47 20ˢ.00 20ˢ.36
[7] Z. 118 119 120 732 733 734

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
6951	8.9	21h 8m 56.52	+1.9014	+0.0026	+ 52° 12′ 49.0	+14.723	+0.182	72.8	191 192	52° 2886
6952	9.4	9 3.72	1.7747	0.0008	55 2 16.4	14.730	0.169	76.8	491 492	54 2493
6953	8.8	9 8.02	1.8706	0.0023	52 57 23.1	14.734	0.178	73.8	193 194 341 342	52 2888
6954	8.9	9 12.60	1.9051	0.0027	52 9 41.3	14.739	0.182	79.1 79.8	6 obs. [1]	52 2889
6955	8.0	9 20.20	1.7837	0.0010	54 53 10.6	14.746	0.170	71.8	125 127	54 2495
6956	8.2	21 9 23.28	+1.9065	+0.0028	+ 52 9 2.1	+14.749	+0.182	76.8	435 436 573 575	52 2890
6957	8.8	9 26.64	1.9802	0.0036	50 19 53.2	14.753	0.189	77.8	118 119 736 737	50 3284
6958	9.3	9 46.39	1.8513	0.0020	53 28 35.5	14.772	0.176	80.9	338 740 742	53 2573
6959	8.8	9 46.55	1.9125	0.0028	52 3 29.0	14.772	0.182	81.5	490 730 732	51 3015
6960	6.6	10 2.29	1.9082	0.0028	52 11 42.6	14.788	0.182	72.8	191 192	52 2892
6961	8.8	21 10 4.33	+1.9645	+0.0034	+ 50 48 58.8	+14.790	+0.187	74.8	341 342	50 3287
6962	8.6	10 4.87	1.9401	0.0032	51 25 37.8	14.790	0.185	76.8	491 492	51 3016
6963	8.8	10 21.64	1.8400	0.0019	53 48 18.8	14.807	0.175	75.8	435 436	53 2577
6964	7.7	10 23.98	1.8332	0.0018	53 57 41.8	14.809	0.174	74.3	193 194 437 438	53 2578
6965	7.6	10 34.79	1.8256	0.0017	54 8 59.8	14.820	0.173	71.8	125 127	54 2498
6966	7.2	21 11 0.46	+1.9665	+0.0035	+ 50 53 27.8	+14.845	+0.186	74.8	343 344	50 3289
6967	7.1	11 4.25	1.9719	0.0036	50 45 44.7	14.849	0.187	74.8	341 342	50 3290
6968	9.1	11 16.70	1.8716	0.0024	53 12 52.4	14.861	0.177	75.8	435 436	53 2579
6969	8.8	11 19.94	1.9941	0.0038	50 13 31.5	14.864	0.189	77.4	491 573 575	50 3291
6970	7.8	11 25.64	1.7916	0.0012	54 59 22.2	14.870	0.169	71.8	125 127	54 2499
6971	9.0	21 11 36.66	+1.9029	+0.0028	+ 52 31 49 5	+14.880	+0.180	83.8	730 732	[52 2896]
6972	8.9	11 42.16	1.9028	0.0028	52 32 39.4	14.886	0.180	78.3	192 732	52 2897
6973	8.9	11 54.00	1.8662	0.0024	53 25 8.3	14.897	0.176	77.1	438 580 581	53 2582
6974	9.0	12 1.20	1.9986	0.0039	50 12 5.8	14.904	0 188	74.8	341 342	50 3294
6975	7.7	12 20.52	1.9308	0.0032	51 57 35.1	14.923	0.182	81.2 80.0	5 obs. [2]	51 3025
6976	8.9	21 12 23.79	+1.9791	+0.0038	+ 50 45 31.1	+14.926	+0.186	77.5	491 582 583	50 3297
6977	8.6	12 29.95	1.9295	0.0032	52 0 46.0	14.932	0.181	82.3	689 690 893 896	51 3026
6978	8.8	12 33.15	1.8969	0.0028	52 47 48.9	14.935	0.178	74.3	193 194 435 436	52 2901
6979	8.7	12 35.39	1.9321	0.0033	51 57 36.7	14.938	0.182	81.5 80.8	7 obs. [3]	51 3027
6980	9.2	12 43.16	1.8055	0.0015	54 51 48.9	14.945	0.169	71.8	125 127	54 2502
6981	8.2	21 12 48.26	+1.9046	+0.0029	+ 52 39 4.5	+14.950	+0.179	75.8	191 192 691 692	52 2902
6982	8.5	12 53.08	1.8313	0.0020	54 19 43.6	14.955	0.171	78.8	697 698	54 2503
6983	9.0	12 55.20	1.8779	0.0026	53 17 18.8	14.957	0.176	74.8	338 340	53 2586
6984	8.4	13 2.83	2.0117	0.0041	49 59 43.8	14.964	0.189	77.7	573 575	49 3491
6985	9.0	13 4.53	1.9334	0.0033	51 59 44.1	14.966	0.181	78.8	690 693 694	51 3029
6986	5.9	21 13 7.48	+1.8710	+0.0025	+ 53 28 23.0	+14.969	+0.175	77.1	438 580 581	53 2588
6987	8.8	13 9.85	1.8223	0.0018	54 33 46.4	14.971	0.170	78.5	582 700 701	54 2505
6988	8.2	13 22.32	1.8557	0.0023	53 51 9.6	14.983	0.173	75.8	435 436	53 2589
6989	8.2	13 26.43	1.8253	0.0019	54 32 3.6	14.987	0.170	78.6	5 obs. [4]	54 2508
6990	8.0	13 43.56	1.9891	0.0010	50 40 55.3	15.004	0 186	74.8	341 342	50 3303
6991	7.9	21 13 44.61	+1.9554	+0.0036	+ 51 32 36.9	+15.005	+0.182	77.5	493 578 579	51 3034
6992	8.0	13 48.62	1.9392	0.0034	51 57 8.0	15.009	0.181	72.8	191 192	51 3035
6993	9.6	13 59.63	2.0166	0.0042	49 59 47.6	15.019	0.188	83.9	740 742 744	49 3495
6994	8.7	14 2.40	1.9876	0.0040	50 45 54.7	15.022	0.185	74.8	343 344	50 3306
6995	9.1	14 4.69[5]	2.0173	0.0043	49 59 18.4	15.024	0.188	80.8	573 575 740 745	49 3495
6996	8.4	21 14 13.88	+1.8204	+0.0018	+ 54 44 39.5	+15.033	+0.169	71.8	125 127	54 2510
6997	7.2	14 32.84	1.8718	0.0026	53 38 53.8	15.051	0.174	74.8	338 340	53 2593
6998	9.0	14 34.64	1.9620	0.0037	51 29 34.6	15.053	0.182	76.8	491 493	51 3037
6999	8.6	14 41.39	1.8318	0.0020	54 33 35.2	15.060	0.170	75.8	437 438	54 2512
7000	9.2	14 41.69	2.0008	0.0041	50 30 38.8	15.060	0.186	74.8	341 342	50 3308

[1] Z. 435 436α 573 575 733 734 [2] Z. 578 579 694 890 894α [3] Z. 578 579 693 694 890 894 896α
[4] Z. 583 697 698 700 701 [5] 4h41 4h39 4h81 4h94

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7001	8.8	21h 14m 41.92	+1.8540	+0.0024	+ 54° 4′ 16.1	+15.060	+0.172	75.8	435 436	53°2594
7002	9.0	14 43.49	1.9543	0.0037	51 42 17.9	15.062	0.182	81.4	580 581 730 733 734	51 3039
7003	8.8	14 45.60	2.0157	0.0043	50 7 39.9	15.064	0.187	74.8	343 344	50 3309
7004	9.0	14 57.38	1.8077	0.0017	55 6 47.4	15.075	0.167	77.7	573 575	55 2553
7005	9.0	15 18.24	1.9025	0.0031	53 2 25.2	15.095	0.176	81.6 82.4	6 obs. [1]	52 2907
7006	7.3	21 15 19.88	+1.9540	+0.0037	+ 51 47 47.6	+15.097	+0.181	78.8	689 690	51 3042
7007	9.1	15 26.48	1.9139	0.0032	52 47 23.2	15.103	0.177	81.2	6 obs. [2]	52 2908
7008	8.2	15 27.69[3]	1.9070	0.0032	52 57 17.0	15.104	0.176	83.8	584 891 894 896	52 2909
7009	8.0	15 29.17	1.9304	0.0034	52 23 51.5	15.106	0.178	78.8	691 692	52 2910
7010	8.8	15 35.25	1.9253	0.0034	52 32 11.4	15.111	0.178	81.9	435 742 743 746	52 2911
7011	6.1	21 15 39.65	+1.9260	+0.0034	+ 52 31 46.2	+15.116	+0.178	75.3	341 342 435 436	52 2913
7012	8.5	15 41.37	1.9156	0.0032	52 47 2.3	15.117	0.176	77.8	6 obs. [4]	52 2914
7013	9.2	15 48.20	1.8465	0.0024	54 23 13.6	15.124	0.170	71.8	125 127	54 2516
7014	7.6	15 48.54	1.8891	0.0029	53 25 22.8	15.124	0.174	74.8	338 340	53 2599
7015	9.0	15 50.46	1.8730	0.0027	53 47 46.0	15.126	0.173	77.8	578 579	53 2600
7016	9.3	21 15 51.48	+1.9603	+0.0038	+ 51 42 51.4	+15.127	+0.181	76.8	491 493	51 3044
7017	7.7	15 54.48	1.9165	0.0033	52 47 34.5	15.130	0.177	79.5	6 obs. [5]	52 2915
7018	6.5	15 54.56	1.8227	0.0020	54 55 16.6	15.130	0.168	75.8	437 438	54 2517
7019	7.6	15 57.22	1.9310	0.0035	52 26 51.6	15.132	0.178	77.8	580 581	} 52 2916
7020	8.2	15 57.86	1.9312	0.0035	52 26 48.2	15.133	0.178	77.8	580 581	
7021	9.2	21 16 18.06	+1.8941	+0.0030	+ 53 22 28.5	+15.152	+0.174	77.8	584 585	53 2604
7022	8.0	16 18.62	1.8821	0.0029	53 39 13.6	15.153	0.173	75.8	435 436	53 2605
7023	8.8	16 45.52	1.9184	0.0034	52 51 50.7	15.179	0.176	72.8	191 192	52 2920
7024	9.2	17 5.01	1.8269	0.0021	54 59 24.1	15.197	0.167	71.8	125 127	54 2520
7025	9.1	17 6.06	1.8322	0.0022	54 52 40.8	15.198	0.168	75.8	437 438	54 2521
7026	9.2	21 17 15.18	+2.0163	+0.0045	+ 50 27 51.9	+15.207	+0.185	76.8	491 493	50 3316
7027	8.4	17 16.60	1.9258	0.0035	52 45 33.1	15.208	0.176	74.8	341 342	52 2922
7028	8.2	17 20.74	1.8702	0.0028	54 4 2.9	15.212	0.171	75.8	435 436	53 2607
7029	9.1	17 21.35	1.8770	0.0029	53 54 53.1	15.213	0.172	74.8	338 340	53 2606
7030	7.9	17 26.42	2.0232	0.0046	50 18 19.5	15.218	0.185	77.8	6 obs. [6]	50 3317
7031	9.1	21 17 28.36	+1.9741	+0.0041	+ 51 35 30.7	+15.219	+0.181	74.8	343 344	51 3048
7032	9.1	17 34.31	2.0244	0.0046	50 17 34.1	15.225	0.186	81.4	573 585 730 740 744	50 3318
7033	8.9	17 35.14	2.0241	0.0046	50 18 10.2	15.226	0.185	80.2	8 obs. [7]	50 3319
7034	8.8	17 51.83[8]	2.0265	0.0046	50 16 39.0	15.242	0.185	82.4	584 742 743 745	50 3321
7035	9.1	17 52.32	1.8364	0.0023	54 53 29.0	15.242	0.167	75.8	439 440	54 2523
7036	9.2	21 18 7.26	+1.8273	+0.0022	+ 55 7 25.9	+15.256	+0.166	77.8	582 583	55 2566
7037	8.5	18 19.23	1.9721	0.0042	51 45 51.8	15.268	0.180	78.1	7 obs. [9]	51 3050
7038	8.8	18 21.27	1.9720	0.0042	51 46 14.4	15.270	0.180	77.2	6 obs. [10]	51 3051
7039	9.2	18 21.41	2.0413	0.0048	49 56 47.1	15.270	0.186	78.8	695 696	49 3510
7040	9.0	18 21.42	1.8640	0.0028	54 20 51.7	15.270	0.170	73.8	125 127 437 438	54 2525
7041	8.5	21 18 29.85	+1.8314	+0.0023	+ 55 5 10.0	+15.278	+0.166	77.8	580 581	55 2567
7042	8.5	18 34.45	2.0414	0.0048	49 58 36.0	15.282	0.186	78.2	573 575 695 696	49 3511
7043	8.8	18 36.28	1.9766	0.0042	51 41 27.8	15.284	0.180	76.8	491 493	51 3052
7044	7.6	18 45.87	1.8950	0.0033	53 41 46.6	15.293	0.172	75.4	338 340 436 439 440	53 2609
7045	9.0	18 46.09	1.8923	0.0032	53 45 34.4	15.293	0.172	81.9	435 740 742 743	53 2610
7046	9.0	21 18 55.70	+2.0344	+0.0048	+ 50 13 4.9	+15.302	+0.185	74.8	341 342	50 3322
7047	8.2	19 4.50	2.0383	0.0049	50 7 54.8	15.310	0.185	74.8	343 344	50 3325
7048	8.4	19 5.32	1.8338	0.0024	55 6 56.2	15.311	0.166	77.8	582 583	55 2570
7049	7.6	19 14.29	2.0444	0.0049	49 59 23.4	15.319	0.186	77.7	573 575	49 3513
7050	8.0	19 15.01	1.8299	0.0023	55 13 15.2	15.320	0.166	77.8	580 581	55 2571

[1] Z. 192 585α 730 732 889 902

[2] Z. 582 693 694 740 744 745

[3] 27.65 27.44 27.76 27.90

[4] Z. 439 573 575 583 693 694

[5] Z. 439 573 575 583 747 749

[6] Z. 345 346 575 580 581 732

[7] Z. 573 575 580 581 585 730 740 744

[8] 51.68 51.86 51.83 52.15

[9] Z. 191 192 345 346 730 732 749

[10] Z. 191 192 345 346 732 749

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7051	8.2	21h 19m 15.97	+1.8516	+0.0027	+ 54° 45′ 0.2	+15.321	+0.168	73.8	125 127 437 438	54° 2527
7052	9.2	19 43.07	1.8343	0.0025	55 11 33.4	15.347	0.166	81.8	584 585 890 891	55 2572
7053	8.9	19 45.62	1.8322	0.0024	55 14 37.4	15.349	0.165	83.4 82.8	5 obs. [1]	55 2573
7054	9.5	19 46.80	2.0022	0.0046	51 11 58.2	15.350	0.181	74.8	345 346	51 3054
7055	7.2	19 47.13	2.0052	0.0046	51 7 13.6	15.350	0.181	80.5	252 730 732	51 3055
7056	7.5	21 19 48.22	+1.8546	+0.0028	+ 54 45 29.6	+15.351	+0.167	75.8	437 438	54 2530
7057	8.6	19 54.96	1.9897	0.0045	51 32 35.3	15.358	0.180	75.8	435 436	51 3056
7058	7.9	19 55.62	1.9753	0.0043	51 54 43.6	15.358	0.179	75.8	439 440	51 3057
7059	8.6	20 6.70	1.9203	0.0037	53 17 29.8	15.369	0.173	74.8	338 340	53 2615
7060	8.8	20 18.57	2.0184	0.0048	50 51 0.0	15.380	0.182	74.8	341 342	50 3329
7061	8.7	21 20 31.08	+1.8451	+0.0026	+ 55 4 6.8	+15.392	+0.166	80.9	127 740 744 745	54 2532
7062	8.9	20 31.40	1.9770	0.0044	51 57 24.6	15.392	0.178	76.4 77.7	252α 573 575	51 3058
7063	8.9	20 32.08	2.0401	0.0050	50 17 53.0	15.392	0.184	74.8	343 344	50 3331
7064	8.1	20 33.80	1.9423	0.0038	52 49 33.0	15.394	0.175	72.8	191 192	52 2931
7065	9.0	20 34.92	1.9130	0.0036	53 31 57.8	15.395	0.172	76.8	491 493	53 2616
7066	7.6	21 20 38.17	+1.8567	+0.0028	+ 54 49 43.5	+15.398	+0.167	75.8	437 438 440	54 2533
7067	8.7	20 41.45	1.9322	0.0039	53 5 27.8	15.401	0.174	75.8	435 436	53 2618
7068	8.8	20 47.64	2.0218	0.0049	50 49 49.5	15.407	0.182	74.8	345 346	50 3332
7069	8.1	20 58.54	1.9804	0.0044	51 56 11.6	15.417	0.178	80.6	252 742 743	51 3061
7070	7.5	21 8.88	2.0325	0.0050	50 35 38.0	15.427	0.183	79.4	341 342 749 750	50 3333
7071	8.4	21 21 14.60	+1.8614	+0.0030	+ 54 48 43.8	+15.432	+0.167	74.5	125 439 440	54 2536
7072	9.1	21 31.18	1.9089	0.0036	53 45 47.2	15.448	0.171	74.8	338 340	53 2622
7073	8.4	21 34.79	1.9013	0.0036	53 57 0.3	15.451	0.170	75.5	6 obs. [2]	53 2624
7074	7.6	21 40.28	1.9692	0.0044	52 19 15.6	15.456	0.176	73.8	191 192 343 344	52 2935
7075	8.9	21 55.56	2.0382	0.0051	50 33 16.5	15.470	0.182	74.8	341 342	50 3337
7076	8.6	21 22 19.52	+1.8534	+0.0029	+ 55 8 35.7	+15.492	+0.165	77.7	573 575	55 2585
7077	7.6	22 21.41	1.9777	0.0046	52 12 23.5	15.494	0.176	73.8	251 252	52 2938
7078	9.1	22 31.54	2.0628	0.0054	49 57 54.2	15.504	0.184	83.5	6 obs. [3]	49 3524
7079	5.1	22 37.72	1.9734	0.0045	52 21 22.2	15.509	0.176	75.1	6 obs. [4]	52 2939
7080	9.1	23 5.31	1.9678	0.0045	52 33 55.0	15.535	0.175	74.3	8 obs. [5]	52 2941
7081	7.7	21 23 12.21	+1.8631	+0.0031	+ 55 3 9.8	+15.541	+0.165	73.6	5 obs. [6]	54 2538
7082	7.0	23 53.46	1.9653	0.0046	52 44 41.9	15.579	0.174	75.3	345 346 435 436	52 2945
7083	8.2	24 4.14	2.0691	0.0056	50 1 20.6	15.589	0.183	75.8	439 440	49 3530
7084	8.8	24 7.38	2.0543	0.0051	50 26 40.2	15.592	0.182	74.8	341 342	50 3341
7085	8.4	24 26.10	2.0619	0.0056	50 16 48.5	15.609	0.182	74.8	343 344	50 3344
7086	8.2	21 24 32.74	+2.0524	+0.0055	+ 50 33 41.2	+15.615	+0.181	73.8	253 254	50 3345
7087	9.0	24 39.32	1.9896	0.0049	52 14 44.9	15.621	0.175	81.1	192 740 742 743	52 2948
7088	8.4	24 45.02	1.9789	0.0048	52 31 59.2	15.626	0.174	74.8	345 346	52 2949
7089	8.4	24 51.06	2.0176	0.0052	51 32 44.3	15.632	0.178	73.8	251 252	51 3072
7090	6.6	24 56.91	1.8825	0.0035	54 52 19.0	15.637	0.165	73.6	5 obs. [7]	54 2544
7091	8.3	21 25 1.64	+1.9519	+0.0045	+ 53 14 47.3	+15.641	+0.171	75.8	435 436 437 438	53 2633
7092	8.8	25 20.94	2.0519	0.0056	50 41 51.6	15.659	0.180	74.8	341 342	50 3349
7093	8.7	25 39.56	2.0314	0.0054	51 18 9.2	15.676	0.178	75.2	251 439 440	51 3075
7094	8.8	25 40.40	2.0305	0.0054	51 19 40.4	15.677	0.178	75.8	439 440	[51 3076]
7095	9.3	25 41.27	1.9902	0.0050	52 23 15.1	15.678	0.174	79.2 77.6	5 obs. [8]	52 2951
7096	9.3	21 25 43.67 [9]	+1.9895	+0.0050	+ 52 24 35.0	+15.680	+0.174	82.1 82.6	345 750δ 892 893	52 2952
7097	7.4	25 43.70	1.9905	0.0050	52 23 8.0	15.680	0.174	77.3	6 obs. [10]	52 5953
7098	9.3	25 51.88	1.9777	0.0049	52 43 52.6	15.687	0.173	77.7	573 575	52 2954
7099	8.8	25 53.37	1.9957	0.0051	52 16 32.8	15.689	0.174	76.6 74.3	5 obs. [11]	52 2955
7100	7.7	25 57.72	1.9221	0.0042	54 6 11.7	15.693	0.168	73.8	125 127 437 438	54 2547

[1] Z. 582 733 734 889 891α
[2] Z. 345 346 435 436 437 438
[3] Z. 440 740 743 892 893 894
[4] Z. 341 342 343 344 435 436
[5] Z. 191 192 251 252 345 346 437 438
[6] Z. 125 127 338 339 340
[7] Z. 125 127 338 339 340
[8] Z. 343 344 346 891 893α
[9] 43.77 [44.68] 43.49 43.75
[10] Z. 343 344 346 569 572 749
[11] Z. 191 192 435 436 891α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7101	9.0	21h 25m 59.80	+2.0575	+0.0057	+ 50°38′ 30.″2	+15.″694	+0.″180	73.8	253 254	50° 3351
7102	5.5	26 10.82	1.9922	0.0051	52 24 31.8	15.704	0.174	83.8	733 734	52 2957
7103	9.1	26 19.96	1.9415	0.0045	53 41 44.3	15.713	0.169	74.8	338 339 340	53 2637
7104	9.0	26 21.23	2.0707	0.0058	50 19 38.5	15.714	0.181	74.8	341 342	50 3353
7105	9.2	26 41.56	2.0001	0.0052	52 17 7.4	15.732	0.174	74.8	343 344	52 2958
7106	8.8	21 26 49.49	+2.0600	+0.0058	+ 50 41 56.9	+15.739	+0.179	74.8	345 346	50 3355
7107	7.4	26 51.01	1.8952	0.0039	54 51 48.0	15.741	0.164	73.8	125 127 437 438	54 2555
7108	8.9	26 54.86	2.0841	0.0060	50 2 14.2	15.744	0.181	75.8	253 254 569 572	49 3542
7109	6.7	27 4.19	2.0267	0.0055	51 38 34.8	15.753	0.176	73.8	251 252	51 3078
7110	8.7	27 4 65	1.9596	0.0048	53 22 1.3	15.753	0.170	74.8	338 339 340	53 2639
7111	8.5	21 27 14.02	+2.0898	+0.0060	+ 49 55 19.3	+15.762	+0.182	83.9	743 744	[49 3545]
7112	9.1	27 14.98	2.0486	0.0057	51 4 52.8	15.762	0.178	83.9	737 740 749 750α	50 3359
7113	6.2	27 15.69	2.0117	0.0054	52 4 7.6	15.763	0.174	81.8	440 730 733 734	51 3079
7114	9.3	27 16.75	2.0114	0.0054	52 4 53.1	15.764	0.174	75.8	435 436 439 440	51 3080
7115	9.6	27 23.36	2.0120	0.0054	52 4 57.6	15.770	0.174	74.8	341 342	[51 3081]
7116	8.9	21 27 30.56	+1.9169	+0.0042	+ 54 27 31.2	+15.776	+0.166	76.5	125 127 893	54 2559
7117	8.4	27 33.27	2.0908	0.0061	49 56 35.0	15.779	0.181	83.9	743 744 745	49 3546
7118	8.8	27 39.94	1.9833	0.0051	52 51 48.2	15.785	0.172	74.8	343 344	52 2962
7119	8.3	27 48.46	2.0943	0.0062	49 53 2.4	15.793	0.181	77.7	569 572	49 3548
7120	6.7	27 50.46	2.0424	0.0057	51 20 29.6	15.794	0.176	73.8	251 252	51 3082
7121	7.9	21 27 58.44	+1.9612	+0.0049	+ 53 27 48.3	+15.802	+0.169	73.6 74.0	5 obs. [1]	53 2642
7122	8.6	28 4.56	2.0116	0.0054	52 11 54.3	15.807	0.174	72.8	191 192	52 2963
7123	8.5	28 6.33	2.0086	0.0055	52 16 54.0	15.809	0.173	74.8	343 344	52 2964
7124	8.6	28 23.18	2.0690	0.0060	50 41 33.4	15.824	0.178	73.8	253 254	50 3360
7125	9.0	28 23.85	1.9739	0.0051	53 12 47.8	15.824	0.170	75.8	435 436	53 2643
7126	8.9	21 28 24.77	+2.0008	+0.0054	+ 52 31 52.6	+15.825	+0.172	74.8	345 346	52 2966
7127	8.5	28 28.87	1.9728	0.0051	53 15 11.3	15.829	0.170	75.8	439 440	53 2644
7128	8.7	28 40.04	1.9258	0.0045	54 25 27.6	15.839	0.165	75.8	437 438	54 2565
7129	9.1	28 42.76	1.9381	0.0046	54 8 21.2	15.841	0.166	71.8	125 127	54 2566
7130	8.4	28 59.30	1.9636	0.0050	53 33 34.5	15.856	0.168	72.8	122 124 338	53 2646
7131	8.6	21 29 0.09	+1.9097	+0.0043	+ 54 51 10.7	+15.857	+0.164	76.8	491 493	54 2567
7132	7.4	29 4.62	1.9851	0.0052	53 2 10.2	15.861	0.170	73.8	251 252	52 2967
7133	...[2]	29 33.40	2.0930	0.0063	50 11 47.5[3]	15.886	0.179	74.8	253 254 435 436	50 3363
7134	8.5	29 34.90	2.0230	0.0057	52 8 4.8	15.888	0.173	72.8	191 192	52 2969
7135	7.6	29 40.62	1.9598	0.0050	53 45 39.9	15.893	0.167	74.8	338 339 340	53 2647
7136	9.4	21 29 41.00	+2.0220	+0.0057	+ 52 10 32.0	+15.893	+0.173	74.8	345 346	52 2970
7137	9.4	29 53.24	2.0404	0.0059	51 42 58.3	15.904	0.174	74.8	343 344	[51 3089]
7138	9.1	30 0.81	1.9783	0.0052	53 21 11.1	15.911	0.169	71.8	122 124	53 2649
7139	9.1	30 3.39	1.9331	0.0047	54 27 53.6	15.913	0.165	71.8	125 127	54 2571
7140	5.9	30 9.16	2.0630	0.0062	51 8 31.4	15.918	0.176	73.8	251 252	51 3091
7141	8.8	21 30 10.77	+2.0423	+0.0060	+ 51 42 46.2	+15.920	+0.174	74.8	343 344	51 3092
7142	9.2	30 13.00	1.9012	0.0043	55 14 4.2	15.922	0.162	77.7	573 575	55 2602
7143	8.6	30 17.51	1.9280	0.0046	54 37 12.3	15.926	0.164	75.8	437 438	54 2573
7144	9.2	30 32.50	2.0424	0.0060	51 45 59.6	15.939	0.174	74.8	341 342	51 3094
7145	8.6	30 32.50	1.9334	0.0047	54 31 56.3	15.939	0.164	75.8	439 440	54 2575
7146	8.8	21 30 33.74	+2.0766	+0.0063	+ 50 49 29.8	+15.940	+0.177	73.8	253 254	50 3369
7147	8.3	30 34.46	2.0434	0.0060	51 44 40.5	15.941	0.174	74.8	347 348	51 3096
7148	9.4	30 42.30	1.9943	0.0055	53 3 25.0	15.948	0.169	74.8	345 346	52 2974
7149	8.5	30 48.40	1.9520	0.0050	54 7 33.4	15.953	0.166	78.8	125 127 892 893	54 2576
7150	8.8	30 53.88	2.0001	0.0056	52 56 18.6	15.958	0.170	72.8	191 192	52 2978

[1] Z. 122α 124 338 339 340 [2] Dupl. 9m.1 & 9m.0 med. [3] From first 3 obs., δ for comp. 50.″4 44.″5 (Ep. 74.5)

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7151	9.0	21h 31m 3s.40	+2s.0511	+0s.0061	+ 51° 36′ 41″.8	+15″.966	+0″.174	76.8	491 493	51° 3099
7152	8.0	31 22.38	1.9961	0.0056	53 7 1.1	15.983	0.169	72.8	122 124 338	53 2651
7153	8.8	31 24.66	2.0286	0.0060	52 16 26.4	15.985	0.172	74.8	345 346 347 348	52 2979
7154	8.6	31 26.98	2.1027	0.0066	50 13 16.7	15.987	0.178	74.8	343 344	50 3375
7155	8.3	31 27.08	2.0169	0.0058	52 35 22.6	15.987	0.171	80.6	5 obs. [1]	52 2980
7156	9.2	21 31 39.56	+2.0183	+0.0059	+ 52 35 13.9	+15.998	+0.170	79.8	436 730	[52 2981]
7157	9.1	31 41.44	1.9426	0.0050	54 29 30.8	16.000	0.164	74.5	6 obs. [2]	54 2579
7158	6.5	31 44.67	2.1139	0.0067	49 56 30.8	16.002	0.179	77.7	569 572	49 3562
7159	9.4	31 48.92	2.0440	0.0062	51 55 40.2	16.006	0.173	73.8	251 252	51 3102
7160	7.2	31 49.32	2.1083	0.0067	50 7 11.4	16.007	0.178	73.8	253 254	50 3377
7161	8.0	21 31 50.30	+2.0318	+0.0060	+ 52 15 28.0	+16.008	+0.172	74.8	345 346	52 2983
7162	8.2	31 53.84	2.0747	0.0064	51 5 44.4	16.010	0.175	74.8	341 342	51 3103
7163	9.3	32 18.06	2.0142	0.0059	52 47 45.3	16.032	0.170	80.3	347 348 892 893	52 2987
7164	8.0	32 29.46	1.9575	0.0053	54 15 26.0	16.042	0.164	75.8	437 438	54 2581
7165	8.4	32 34.25	2.1176	0.0068	49 58 3.6	16.046	0.178	79.0	5 obs. [3]	49 3568
7166	9.2	21 32 38.28	+2.1179	+0.0068	+ 49 58 18.8	+16.050	+0.178	80.8	569 572 744 745	49 3570
7167	...	32 43.83	2.1196	0.0069	49 56 10.8	16.054	0.178	83.9	744α 745	[49 3571]
7168	7.9	32 51.40	1.9672	0.0054	54 4 35.2	16.061	0.165	71.8	122 124	53 2655
7169	8.8	32 51.67	1.9283	0.0049	55 0 47.6	16.061	0.162	71.8	125 127	54 2582
7170	9.2	32 51.90	2.1087	0.0068	50 16 40.5	16.062	0.177	73.8	253 254	50 3380
7171	7.4	21 32 53.73	+2.0908	+0.0067	+ 50 48 7.7	+16.063	+0.176	74.8	341 342	50 3381
7172	7.4	32 54.14	2.0172	0.0060	52 48 58.0	16.063	0.169	80.2	7 obs. [4]	52 2990
7173	6.8	32 54.72	2.1012	0.0067	50 30 10.2	16.064	0.177	74.8	343 344	50 3382
7174	8.4	33 0.63	2.0170	0.0060	52 50 13.4	16.069	0.169	78.5	439 440 737	52 2992
7175	9.2	33 0.98	2.0031	0.0058	53 11 53.9	16.069	0.168	80.9	338 742 743	53 2656
7176	9.2	21 33 1.26	+2.0420	+0.0063	+ 52 10 38.1	+16.070	+0.171	75.8	435 436	52 2991
7177	7.8	33 2.03	1.9487	0.0052	54 33 21.9	16.070	0.163	79.8	129 734 746	54 2583
7178	8.6	33 10.52	2.0392	0.0062	52 16 33.8	16.078	0.171	81.5	493 744 745	52 2993
7179	8.4	33 11.60	2.0822	0.0066	51 5 43.8	16.079	0.174	73.8	251 252	51 3105
7180	8.8	33 21.93	2.0887	0.0067	50 56 14.2	16.088	0.175	76.8	498 499	50 3384
7181	5.0	21 33 29.11	+1.9951	+0.0058	+ 53 28 47.7	+16.094	+0.167	75.8	435 436	53 2659
7182	9.0	33 31.85	2.0832	0.0067	51 7 18.8	16.096	0.174	74.8	345 346	51 3106
7183	8.9	33 33.83	2.0270	0.0062	52 39 53.0	16.098	0.169	74.8	347 348	52 2994
7184	8.7	33 33.86	1.9250	0.0049	55 12 6.1	16.098	0.160	77.8	6 obs. [5]	55 2610
7185	8.4	33 34.40	2.0717	0.0066	51 27 1.8	16.098	0.173	74.8	343 344	51 3107
7186	8.6	21 33 34.75	+1.9246	+0.0049	+ 55 12 46.7	+16.099	+0.160	77.8	6 obs. [6]	55 2611
7187	9.0	33 35.03	2.1220	0.0070	50 0 22.2	16.099	0.178	80.8	569 740	[49 3575]
7188	8.9	33 37.59	2.1206	0.0070	50 3 16.7	16.101	0.177	81.8	572 742 743	49 3574
7189	8.8	33 38.76	2.0350	0.0062	52 27 51.8	16.102	0.170	77.2	440 582 583	52 2998
7190	8.4	33 46.54	1.9577	0.0054	54 27 19.7	16.109	0.163	74.5	131 437 438	54 2585
7191	8.6	21 33 55.86	+2.0939	+0.0068	+ 50 53 1.8	+16.117	+0.175	80.5	254 730 736	50 3391
7192	8.2	34 12.29	2.1067	0.0069	50 33 29.2	16.131	0.176	74.8	341 342	50 3392
7193	9.1	34 15.11	2.1256	0.0071	50 0 38.1	16.134	0.177	81.8	575 733 734	49 3580
7194	8.9	34 22.04	2.0131	0.0061	53 9 32.1	16.140	0.167	73.8	122 124 573	53 2669
7195	7.4	34 23.44	2.0188	0.0062	53 0 56.5	16.141	0.168	75.5	347 348 497	52 3003
7196	8.2	21 34 31.05	+2.0595	+0.0066	+ 51 56 40.2	+16.148	+0.171	73.8	251 252	51 3109
7197	8.2	34 43.66	1.9757	0.0057	54 9 56.8	16.158	0.164	75.8	437 438	54 2586
7198	7.5	34 43.75	1.9318	0.0051	55 13 37.2	16.159	0.160	75.8	439 440	55 2612
7199	7.3	34 51.82	2.0141	0.0062	53 12 51.2	16.166	0.167	81.6	338 730 733 734	53 2671
7200	8.9	34 53.87	1.9629	0.0056	54 30 34.2	16.167	0.162	71.8	129 131	54 2587

[1] Z. 435 436 730 733 734
[2] Z. 125 127 437 438 439 440
[3] Z. 569 572 580 581 740
[4] Z. 346 439 440 730 733 736 737
[5] Z. 573 575 580 581 584 585
[6] Z. 573 575 580 581 584 585

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7201	9.0	21h 34m 55.02	+2.0870	+0.0069	+ 51° 14′ 34.4	+16.168	+0.173	74.8	343 344	51° 3111
7202	7.8	34 58.68	2.0676	0.0067	51 47 51.8	16.172	0.171	74.8	345 346	51 3112
7203	8.6	35 0.03	2.0188	0.0062	53 6 50.2	16.173	0.167	77.2	491 575	53 2673
7204	9.0	35 0.40	2.0001	0.0060	53 35 53.0	16.173	0.166	75.8	435 436	53 2674
7205	8.8	35 20.60	1.9839	0.0059	54 3 38.5	16.190	0.164	71.8	122 124	53 2677
7206	8.5	21 35 28.12	+2.0827	+0.0069	+ 51 27 23.6	+16.197	+0.172	78.8	691 692	51 3114
7207	6.4	35 31.86	2.1022	0.0070	50 54 39.2	16.200	0.174	74.8	341 342	50 3401
7208	8.4	35 34.70	2.0331	0.0063	52 49 58.5	16.202	0.168	74.8	347 348	52 3005
7209	7.2	35 36.40	1.9555	0.0055	54 48 8.6	16.204	0.161	75.8	437 438	54 2590
7210	8.4	35 37.68	2.1000	0.0071	50 59 21.2	16.205	0.173	74.8	343 344	50 3403
7211	9.1	21 35 40.65	+2.0368	+0.0065	+ 52 45 5.3	+16.208	+0.168	77.1	440 582 583	52 3006
7212	7.6	35 49.13	2.0129	0.0063	53 24 8.5	16.215	0.166	81.6	338 730 733 734	53 2680
7213	8.8	35 54.64	1.9664	0.0057	54 35 8.6	16.220	0.162	71.8	129 131	54 2593
7214	9.4	35 55.41	2.0642	0.0068	52 2 50.0	16.220	0.170	73.8	251 252	51 3115
7215	9.2	36 0.31	2.0765	0.0069	51 43 13.0	16.225	0.171	75.8	435 436	51 3116
7216	8.7	21 36 12.39	+2.0130	+0.0063	+ 53 27 45.3	+16.235	+0.165	76.8	491 498 499	53 2683
7217	8.9	36 18.86	2.1057	0.0072	50 56 29.1	16.240	0.173	76.4	254 573 575	50 3405
7218	8.8	36 22.58	2.0856	0.0070	51 31 41.4	16.244	0.171	75.8	439 440	51 3119
7219	8.1	36 22.67	2.1124	0.0072	50 45 27.1	16.244	0.174	74.8	345 346	50 3406
7220	8.1	36 28.52	2.0033	0.0062	53 45 26.8	16.249	0.164	71.8	122 124	53 2684
7221	8.7	21 36 29.50	+2.1097	+0.0072	+ 50 51 16.3	+16.249	+0.173	74.8	342 343 344	50 3407
7222	6.4	36 34.99	1.9823	0.0060	54 18 16.4	16.254	0.162	75.8	437 438	54 2595
7223	9.3	36 35.02	2.0501	0.0067	52 32 38.2	16.254	0.168	74.8	347 348	[52 3010]
7224	7.8	36 43.50	1.9636	0.0058	54 47 18.0	16.261	0.160	77.7	569 572	54 2597
7225	8.9	36 47.60	1.9758	0.0059	54 29 56.0	16.265	0.162	73.3	131 338	54 2598
7226	8.9	21 37 22.28	+2.1448	+0.0076	+ 49 57 36.8	+16.294	+0.175	75.8	439 440	49 3595
7227	5.6	37 39.60	2.1244	0.0075	50 37 11.3	16.309	0.173	73.8	254 255	50 3410
7228	6.3	37 44.04	2.0868	0.0072	51 43 17.5	16.313	0.170	73.8	251 252	51 3125
7229	8.9	37 49.64	2.0487	0.0069	52 47 22.6	16.318	0.167	83.8	733 734 749	52 3015
7230	9.1	37 52.62	2.0513	0.0069	52 43 39.8	16.320	0.167	75.3	345 346 435 436	52 3016
7231	7.2	21 37 53.37	+2.1369	+0.0076	+ 50 17 15.5	+16.321	+0.174	79.2 80.3	5 obs. [1]	50 3411
7232	9.0	37 56.82	2.0228	0.0066	53 29 52.4	16.324	0.164	73.8	122 124 437 438	53 2687
7233	9.2	38 8.86	2.1084	0.0074	51 10 21.5	16.334	0.171	74.8	347 348	51 3126
7234	8.0	38 10.08	2.0639	0.0070	52 26 4.6	16.335	0.168	77.2	491 496 569 572	52 3017
7235	7.4	38 21.95	2.0562	0.0070	52 40 46.0	16.345	0.167	75.8	439 440	52 3019
7236	7.8	21 38 37.68	+2.0386	+0.0068	+ 53 11 46.2	+16.358	+0.165	76.3	435 436 498 499	53 2689
7237	7.4	38 44.22	2.0088	0.0066	53 59 27.7	16.364	0.162	71.8	122 124	53 2690
7238	8.2	38 47.32	1.9708	0.0060	54 57 8.5	16.366	0.159	71.8	129 131	54 2606
7239	8.6	38 47.78	2.1373	0.0077	50 25 54.3	16.367	0.173	73.8	254 255	50 3416
7240	8.5	38 51.08	1.9841	0.0062	54 38 3.5	16.370	0.160	75.5	338 437 438	54 2607
7241	7.3	21 38 56.12	+2.0900	+0.0074	+ 51 50 7.9	+16.374	+0.169	74.3	251 252 345 346	51 3127
7242	9.3	39 3.12	2.1412	0.0078	50 21 27.6	16.380	0.173	74.8	5 obs. [2]	50 3418
7243	8.3	39 22.29	2.1432	0.0078	50 21 14.7	16.396	0.173	74.8	344 347 348	50 3421
7244	8.4	39 24.19	2.1553	0.0079	49 59 22.3	16.397	0.174	75.8	439 440	49 3605
7245	9.6	39 42.74	2.1360	0.0078	50 37 46.6	16.413	0.172	74.8	341 342	50 3422
7246	9.1	21 39 44.50	+1.9714	+0.0062	+ 55 5 43.1	+16.414	+0.158	75.7	437 438	54 2609
7247	7.9	39 48.51	2.0267	0.0069	53 42 37.3	16.418	0.163	73.6	5 obs. [3]	53 2694
7248	8.9	39 58.66	2.1420	0.0079	50 29 47.2	16.426	0.172	74.3	254 255 345 346	50 3423
7249	8.8	40 3.68	1.9921	0.0065	54 38 12.9	16.431	0.160	71.8	129 131	54 2611
7250	7.9	40 11.18	1.9862	0.0064	54 48 21.0	16.437	0.159	81.5	496 730 732	54 2612

[1] Z. 342 343α 344 892 893 [2] Z. 341 342 343 347 348 [3] Z. 122 124 338 339 340

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7251	9.0	21h 40m 19.02	+2.1194	+0.0778	+ 51° 13′ 47.4	+16.443	+0.170	73.8	251 252	51° 3132
7252	9.1	40 44.42	2.0264	0.0070	53 52 30.3	16.465	0.162	77.0	6 obs. [1]	53 2696
7253	6.2	40 48.61	2.1064	0.0078	51 41 31.6	16.468	0.168	74.8	343 344	51 3135
7254	8.4	40 49.79	2.0844	0.0076	52 19 24.4	16.469	0.166	79.3	347 348 733 734	52 3026
7255	8.8	40 56.01	2.0630	0.0074	52 56 3.2	16.474	0.164	75.8	435 439 440	52 3027
7256	8.7	21 40 57.75 [2]	+2.0256	+0.0070	+ 53 56 1.3	+16.476	+0.161	76.5 78.8	122 124 891δ 893	53 2697
7257	8.8	41 1.58	2.1035	0.0078	51 48 50.4	16.479	0.168	74.8	345 346	51 3136
7258	9.3	41 4.12	2.0740	0.0075	52 39 16.9	16.481	0.165	76.8	496 498 499	52 3028
7259	9.1	41 30.58	2.1562	0.0082	50 19 54.2	16.503	0.172	73.8	254 255	50 3429
7260	7.0	41 31.54	2.1639	0.0082	50 5 51.0	16.504	0.172	74.8	341 342	50 3430
7261	8.2	21 41 31.65	+2.0886	+0.0077	+ 52 19 32.7	+16.504	+0.166	78.2 79.6	6 obs. [3]	52 3030
7262	7.8	41 42.51	2.0903	0.0077	52 18 39.4	16.513	0.166	77.0 77.3	5 obs. [4]	52 3031
7263	9.5	41 48.43	1.9912	0.0067	54 57 21.3	16.518	0.158	73.5	129 131 498	54 2616
7264	9.0	41 54.40	2.0313	0.0072	53 56 57.5	16.523	0.161	74.8	338 339 340	53 2702
7265	9.0	42 1.76	2.1288	0.0080	51 15 12.8	16.529	0.169	73.8	251 252	51 3141
7266	8.6	21 42 8.38	+2.0674	+0.0076	+ 53 1 21.7	+16.534	+0.163	75.8	435 436	52 3032
7267	8.3	42 8.55	2.1063	0.0079	51 55 45.0	16.534	0.167	74.8	343 344	51 3143
7268	7.4	42 8.86	2.1195	0.0080	51 32 49.0	16.535	0.168	74.8	345 346	51 3144
7269	9.4	42 10.38	2.0485	0.0074	53 32 26.6	16.536	0.162	71.8	122 124	53 2703
7270	9.6	42 28.44	2.1434	0.0082	50 53 41.8	16.551	0.169	74.8	341 342	50 3433
7271	9.2	21 42 35.85	+2.1476	+0.0082	+ 50 47 21.8	+16.557	+0.170	73.8	254 255	50 3434
7272	8.6	42 39.32	2.0160	0.0071	54 28 31.9	16.560	0.159	76.6	439 496 498 499	54 2624
7273	9.2	42 39.81	2.0050	0.0070	54 45 27.0	16.560	0.158	75.8	437 438	54 2623
7274	9.4	42 41.80	2.1142	0.0081	51 47 56.6	16.562	0.167	74.8	347 348	51 3146
7275	...	42 44.49	2.0819	0.0078	52 43 36.9	16.564	0.164	83.8	730 732	52 3035
7276	8.8	21 42 50.52	+2.0247	+0.0072	+ 54 17 2.6	+16.569	+0.159	71.8	129 131	54 2625
7277	9.0	42 54.98	2.0177	0.0071	54 28 38.0	16.572	0.159	76.4	439 440 496 498	54 2626
7278	9.2	43 12.03	2.0166	0.0072	54 33 15.6	16.586	0.158	77.8	580 581	54 2628
7279	9.2	43 16.62	2.0369	0.0074	54 2 24.0	16.590	0.160	71.8	122 124	53 2705
7280	8.9	43 18.62	2.1334	0.0083	51 20 40.9	16.592	0.168	78.8	251 252 749 750	51 3151
7281	9.2	21 43 19.04	+2.1359	+0.0083	+ 51 16 14.5	+16.592	+0.168	74.8	343 344	51 3152
7282	7.6	43 29.42	2.1444	0.0084	51 2 49.2	16.601	0.168	73.8	254 255	50 3438
7283	9.0	43 38.75	2.1204	0.0082	51 47 18.7	16.608	0.166	74.8	341 342	51 3154
7284	8.6	43 39.84	2.0808	0.0079	52 55 15.5	16.609	0.163	75.8	435 436 439 440	52 3038
7285	9.2	43 40.44	2.1422	0.0084	51 8 43.6	16.610	0.168	74.8	345 346	51 3155
7286	7.5	21 43 48.16	+2.0964	+0.0080	+ 52 30 34.2	+16.616	+0.164	74.8	347 348	52 3040
7287	8.8	43 55.43	2.0601	0.0077	53 32 8.5	16.622	0.161	74.4	5 obs. [5]	53 2707
7288	7.7	43 58.68	2.0504	0.0076	53 48 20.8	16.625	0.160	74.8	338 339 340	53 2708
7289	8.6	44 8.68	2.1490	0.0085	51 1 33.0	16.633	0.168	73.8	254 255	50 3442
7290	9.0	44 9.84	2.1822	0.0087	50 0 2.3	16.634	0.171	77.7	569 572	49 3629
7291	8.8	21 44 30.64	+2.1220	+0.0084	+ 51 53 53.9	+16.651	+0.165	73.8	251 252	51 3158
7292	8.5	44 39.64	2.1873	0.0088	49 55 48.2	16.658	0.170	75.8	439 440	49 3632
7293	8.2	44 40.38	2.1873	0.0088	49 55 58.2	16.659	0.170	75.8	439 440	
7294	8.4	44 41.23	2.0908	0.0081	52 49 25.0	16.659	0.162	75.3	341 342 435 436	52 3041
7295	8.8	44 45.24	2.0890	0.0081	52 53 15.7	16.663	0.162	74.8	343 344	52 3042
7296	9.2	21 45 4.92	+2.0508	+0.0078	+ 53 59 22.7	+16.678	+0.159	79.9	122 749 750	53 2709
7297	8.5	45 5.32	2.0529	0.0078	53 56 11.5	16.679	0.159	73.6	5 obs. [6]	53 2710
7298	8.2	45 7.22	2.0787	0.0081	53 14 26.4	16.680	0.161	74.8	345 346	53 2711
7299	8.2	45 7.96	2.0583	0.0079	53 47 58.2	16.681	0.159	75.8	347 348 491 493	53 2712
7300	8.8	45 13.22	2.0657	0.0080	53 36 53.0	16.685	0.160	75.8	437 438	53 2713

[1] Z. 338 339 340 437 438 892 [2] 57.88 57.78 [57.29] 57.59 [3] Z. 347 348α 439 440α 730 732
[4] Z. 347 348 439 440α 732 [5] Z. 129 131 437 438 496 [6] Z. 129 131 338 339 340

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7301	9.0	21h 45m 14s.57	+2s.0593	+0s.0079	+ 53° 47′ 31″.7	+16″.686	+0″.159	83.2	5 obs. [1]	53° 2714
7302	9.5	45 36.43	2.0615	0.0080	53 47 49.5 [2]	16.704	0.159	85.2	745 892 893	— —
7303	5.9	45 36.75	2.1215	0.0085	52 6 50.4	16.704	0.164	73.8	251 252	52 3043
7304	7.6	45 39.64	2.0670	0.0080	53 39 26.2	16.707	0.160	76.8	496 497	53 2716
7305	8.8	45 41.03	2.1193	0.0085	52 11 18.5	16.708	0.164	78.8	5 obs. [3]	52 3045
7306	9.6	21 45 41.16	+2.0878	+0.0082	+ 53 5 24.2	+16.708	+0.161	74.8	341 342	52 3044
7307	7.6	45 59.25	2.1797	0.0089	50 24 57.4	16.722	0.169	74.3	254 255 347 348	50 3451
7308	8.6	46 12.88	2.0527	0.0080	54 8 30.8	16.733	0.158	71.8	129 131	54 2631
7309	9.0	46 21.62	2.0345	0.0078	54 38 58.9	16.740	0.156	75.8	439 440	54 2632
7310	8.6	46 25.04	2.0459	0.0079	54 21 31.6	16.743	0.157	75.8	437 438	54 2633
7311	8.7	21 46 25.29	+2.1698	+0.0090	+ 50 48 25.4	+16.743	+0.167	74.8	341 342 345 346	50 3455
7312	8.6	46 29.82	2.0286	0.0077	54 49 34.0	16.747	0.155	76.8	491 493	54 2634
7313	9.0	47 3.92	2.0745	0.0083	53 42 23.8	16.774	0.159	73.8	124 343 344	53 2719
7314	9.1	47 17.40	2.1909	0.0092	50 18 12.0	16.785	0.168	74.8	254 255 435 436	50 3460
7315	9.6	47 33.04	2.0301	0.0079	54 58 32.0	16.797	0.154	73.8	129 131 437 438	54 2635
7316	8.8	21 47 35.06	+2.1335	+0.0089	+ 52 7 18.7	+16.799	+0.163	74.3	251 252 345 346	52 3049
7317	8.3	47 35.57	2.1756	0.0092	50 50 40.6	16.799	0.166	74.8	341 342	50 3465
7318	9.0	47 36.41	2.0882	0.0085	53 25 42.6	16.800	0.159	74.8	338 339 340	53 2723
7319	8.5	47 37.94	2.0425	0.0080	54 40 3.6	16.801	0.155	75.8	439 440	54 2636
7320	7.9	47 46.85	2.0228	0.0078	55 12 16.4	16.808	0.154	79.8	6 obs. [4]	55 2638
7321	6.9	21 47 47.44	+2.0227	+0.0078	+ 55 12 35.8	+16.809	+0.154	79.8	6 obs. [5]	55 2639
7322	8.6	47 54.47	2.0734	0.0084	53 53 29.4	16.814	0.158	75.8	343 344 496 497	53 2724
7323	8.7	48 3.15	2.1019	0.0087	53 7 28.6	16.821	0.160	73.3	122 124 347 348	53 2725
7324	6.7	48 7.62	2.0674	0.0084	54 5 42.4	16.825	0.157	76.8	491 493	54 2638
7325	9.0	48 13.01	2.0450	0.0082	54 42 27.7	16.829	0.155	79.8	439 440 733 734	54 2639
7326	7.4	21 48 13.18	+2.0547	+0.0082	+ 54 27 8.2	+16.829	+0.156	71.8	129 131	54 2640
7327	8.9	48 50.60	2.1843	0.0094	50 48 26.9	16.859	0.165	73.8	254 255	50 3471
7328	8.6	48 53.85	2.1812	0.0094	50 54 50.9	16.862	0.165	74.8	341 342	50 3472
7329	6.6	48 57.18	2.0978	0.0088	53 24 32.3	16.864	0.158	71.8	122 124	53 2727
7330	8.9	49 10.64	2.0888	0.0087	53 42 4.0	16.875	0.157	75.6	5 obs. [6]	53 2728
7331	9.2	21 49 17.84	+2.1050	+0.0089	+ 53 16 4.6	+16.880	+0.158	78.1	347 491 493 749	53 2729
7332	9.3	49 19.26	2.1676	0.0094	51 25 11.3	16.882	0.163	73.8	251 252	51 3179
7333	9.6	49 20.31	2.1071	0.0089	53 12 53.7	16.882	0.159	84.8	730 893	53 2730
7334	8.7	49 30.28	2.1807	0.0094	51 2 43.2	16.890	0.164	73.8	254 255	50 3477
7335	9.0	49 32.67	2.1070	0.0090	53 15 26.0	16.892	0.158	78.8	9 obs. [7]	53 2731
7336	8.6	21 49 33.11	+2.0910	+0.0088	+ 53 42 32.0	+16.893	+0.157	75.6	5 obs. [8]	53 2732
7337	8.8	49 37.46	2.1774	0.0094	51 10 14.8	16.896	0.164	74.8	345 346	51 3182
7338	9.1	49 38.64	2.2119	0.0096	50 4 14.0	16.897	0.166	77.7	569 572	49 3664
7339	8.1	49 40.02	2.1592	0.0094	51 44 28.7	16.898	0.162	75.8	435 436	51 3183
7340	8.8	49 45.02	2.1380	0.0092	52 23 41.6	16.902	0.160	74.8	343 344	52 3056
7341	8.4	21 49 55.86	+2.1265	+0.0092	+ 52 46 4.4	+16.910	+0.159	79.9	439 440 744 745	52 3057
7342	8.8	50 7.89	2.1715	0.0095	51 27 10.3	16.920	0.163	74.8	341 342	51 3184
7343	8.2	50 9.94	2.1224	0.0092	52 55 53.4	16.921	0.159	77.5	498 580 581	52 3058
7344	9.3	50 29.81	2.1391	0.0093	52 30 15.7	16.937	0.160	81.4	5 obs. [9]	52 3059
7345	9.0	50 30.04	2.1024	0.0090	53 34 4.0	16.937	0.157	71.8	122 124	53 2733
7346	6.2	21 50 33.10	+2.1107	+0.0091	+ 53 20 29.2	+16.939	+0.157	74.8	338 339 340	53 2735
7347	9.0	50 33.22	2.0876	0.0089	53 59 27.8	16.940	0.156	71.8	129 131	53 2734
7348	8.6	50 40.53	2.1194	0.0092	53 6 56.6	16.945	0.158	77.8 75.8	5 obs. [10]	53 2737
7349	8.6	50 42.62	2.1211	0.0092	53 4 21.5	16.947	0.158	85.8	895 904	52 3060
7350	9.0	50 43.10	2.0923	0.0090	53 53 31.6	16.947	0.156	83.8	347 730 732	53 2736

[1] Z. 491 744 745 892 893

[2] Z. 51″.5 49″.8 47″.3

[3] Z. 344 435 436 749 750

[4] Z. 569 572 580 581 730 732

[5] Z. 569 572 580 581 730 732

[6] Z. 338 339 340 496 497

[7] Z. 129 131 347 491 493 749 750 751 892

[8] Z. 338 339 340 496 497

[9] Z. 345 346 890 891 902

[10] Z. 343 344 491 493 904α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7351	8.0	21h 50m 47.56	+2.1037	+0.0091	+ 53° 35′ 9.0	+16.951	+0.156	76.8	496 497	53° 2740
7352	8.8	50 48.14	2.2083	0.0098	50 24 43.0	16.951	0.165	73.8	254 255	50 3486
7353	9.0	50 55.74	2.1143	0.0092	53 18 39.2	16.957	0.157	77.8	582 583	53 2741
7354	7.4	51 0.80	2.1613	0.0096	51 56 8.7	16.961	0.161	73.8	251 252	51 3187
7355	6.0	51 6.94	2.1382	0.0094	52 39 1.8	16.966	0.160	75.8	435 436	52 3063
7356	9.1	21 51 9.00	+2.1303	+0.0094	+ 52 53 16.7	+16.967	+0.158	76.3	439 440 498 499	52 3064
7357	8.8	51 24.10	2.2089	0.0098	50 30 30.4	16.979	0.164	74.8	345 346	50 3491
7358	8.4	51 24.89	2.1522	0.0096	52 17 24.5	16.980	0.160	81.8	569 572 892 893	52 3065
7359	8.9	51 34.12	2.2115	0.0099	50 27 29.0	16.987	0.164	74.8	343 344	50 3492
7360	8.9	51 49.16	2.1799	0.0098	51 31 6.4	16.998	0.161	74.8	5 obs. [1]	51 3191
7361	9.0	21 51 49.25	+2.0537	+0.0088	+ 55 8 44.0	+16.999	+0.152	77.8	580 581 589 591	55 2648
7362	9.2	51 53.41	2.1796	0.0098	51 32 26.6	17.002	0.161	83.9	744 745	51 3193
7363	9.3	51 55.35	2.0543	0.0088	55 8 50.0	17.003	0.152	77.8	5 obs. [2]	55 2649
7364	8.2	51 58.26	2.1376	0.0096	52 49 50.6	17.006	0.158	76.8	491 493	52 3068
7365	8.5	52 3.43	2.1679	0.0098	51 56 6.6	17.010	0.160	74.5	251 252 436	51 3194
7366	8.7	21 52 6.49	+2.0972	+0.0092	+ 54 1 2.0	+17.012	+0.155	71.8	122 124 129 131	53 2742
7367	8.0	52 9.56	2.1989	0.0099	50 58 55.4	17.014	0.162	73.8	254 255	50 3496
7368	8.7	52 13.12	2.2035	0.0100	50 50 37.9	17.017	0.163	80.3	347 348 895 902	50 3497
7369	9.5	52 18.48	2.2015	0.0100	50 55 36.1	17.021	0.162	76.8	346 582 583	50 3499
7370	8.8	52 19.30	2.1387	0.0096	52 52 0.2	17.022	0.157	76.8	496 497	52 3070
7371	9.2	21 52 46.94	+2.1935	+0.0100	+ 51 16 32.2	+17.043	+0.161	74.8	5 obs. [3]	51 3198
7372	8.5	52 58.61	2.2262	0.0102	50 15 4.3	17.052	0.163	79.2	9 obs. [4]	50 3502
7373	9.0	53 6.58	2.1652	0.0099	52 13 30.2	17.058	0.159	76.8	491 493	52 3071
7374	8.2	53 12.78	2.2361	0.0102	49 57 57.7	17.063	0.164	77.7	569 572	49 3699
7375	8.6	53 13.32	2.2219	0.0102	50 26 30.2	17.063	0.163	74.8	347 348	50 3504
7376	8.6	21 53 13.78	+2.2278	+0.0102	+ 50 14 49.8	+17.064	+0.163	79.5 77.1	11 obs. [5]	50 3503
7377	9.0	53 19.51	2.2014	0.0102	51 7 45.4	17.068	0.161	73.8	251 252	51 3204
7378	9.2	53 20.34	2.2133	0.0103	50 44 50.4	17.069	0.162	78.1	346 498 499 750	50 3505
7379	8.1	53 24.34	2.2274	0.0102	50 17 48.7	17.072	0.163	85.8	893	50 3506
7380	8.5	53 29.14	2.2057	0.0103	51 1 27.2	17.075	0.161	75.8	439 440	50 3507
7381	9.0	21 53 31.36	+2.1765	+0.0100	+ 51 57 28.2	+17.077	+0.159	76.8	496 497	51 3206
7382	9.0	53 41.67	2.1872	0.0102	51 39 17.8	17.085	0.160	74.8	338 339 340	51 3207
7383	9.2	53 44.59	2.0686	0.0092	55 6 46.1	17.087	0.150	77.8	580 581	55 2656
7384	8.8	54 4.75	2.1152	0.0097	53 53 16.3	17.103	0.154	71.8	122 124	53 2749
7385	8.8	54 8.35	2.1707	0.0101	52 15 22.0	17.105	0.158	74.8	343 344	52 3073
7386	9.0	21 54 10.76	+2.1844	+0.0102	+ 51 50 27.0	+17.107	+0.159	74.8	341 342	51 3208
7387	9.1	54 11.96	2.2418	0.0104	49 58 12.9	17.108	0.163	80.8	569 572 730 732	49 3703
7388	8.1	54 16.37	2.1248	0.0098	53 39 3.2	17.111	0.154	75.8	345 346 496 497	53 2752
7389	8.8	54 27.02	2.0710	0.0093	55 11 0.6	17.120	0.150	75.8	439 440	55 2663
7390	9.1	54 27.66	2.1062	0.0097	54 13 11.1	17.120	0.152	73.5	129 131 499	54 2657
7391	8.4	21 54 35.40	+2.2362	+0.0105	+ 50 14 11.8	+17.126	+0.162	74.8	254 255 435 436	50 3513
7392	9.0	54 39.96	2.1888	0.0103	51 47 57.9	17.129	0.158	74.3	251 252 338 340	51 3211
7393	9.0	55 1.23	2.1914	0.0104	51 47 15.0	17.146	0.158	83.9	745 746	51 3213
7394	9.6	55 3.96	2.1205	0.0099	53 55 50.6	17.148	0.153	74.8	347 348	53 2755
7395	8.8	55 9.29	2.1109	0.0098	54 13 14.6	17.152	0.152	76.8	498 499	54 2659
7396	9.0	21 55 12.19	+2.1335	+0.0100	+ 53 34 55.5	+17.154	+0.154	74.3	122 124 496 497	53 2757
7397	9.0	55 14.82	2.2102	0.0105	51 13 48.7	17.156	0.160	74.8	341 342	51 3215
7398	8.5	55 18.08	2.2494	0.0106	49 55 58.0	17.158	0.162	76.8	439 440 569 572	49 3711
7399	8.8	55 27.50	2.1389	0.0101	53 28 27.7	17.165	0.154	74.8	345 346	53 2758
7400	7.2	55 28.70	2.2212	0.0106	50 55 8.7	17.166	0.160	74.8	343 344	50 3518

[1] Z. 338 339 340 341 342 [2] Z. 580 581 588 589 591 [3] Z. 338 339 340 341 342

[4] Z. 254 255 343 344 435 744 745 890 892 [5] Z. 254 255 343 344 435 436 744 745 890α 892α 893α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7401	7.3	21h 55m 34.32	+2.1385	+0.0101	+ 53°30′ 32.2	+17.170	+0.154	76.8	491 493	53° 2759
7402	9.6	55 38.83	2.2103	0.0105	51 18 28.1	17.174	0.159	80.5	251 730 733	51 3218
7403	7.2	55 40.64	2.1075	0.0099	54 25 14.0	17.175	0.151	71.8	129 131	54 2661
7404	8.7	55 41.20	2.2197	0.0106	51 0 35.4	17.176	0.160	73.8	254 255	50 3519
7405	9.4	55 49.84	2.0869	0.0097	55 1 12.8	17.182	0.150	81.5	499 746 749	54 2604
7406	9.0	21 55 54.32	+2.0887	+0.0097	+ 54 59 3.6	+17.186	+0.150	80.0	5 obs. [1]	54 2665
7407	9.1 [2]	56 6.89	2.1401	0.0102	53 34 14.6	17.195	0.153	80.4	496 745 [3]	53 2764
7408	8.6	56 10.34	2.1937	0.0106	51 56 50.2	17.198	0.157	74.8	341 342	51 3222
7409	8.4	56 10.58	2.2340	0.0107	50 38 8.0	17.198	0.160	75.8	435 436	50 3522
7410	8.9	56 20.92	2.2334	0.0107	50 41 17.3	17.206	0.160	74.8	343 344	50 3523
7411	8.9	21 56 27.67	+2.1428	+0.0104	+ 53 33 33.3	+17.211	+0.153	73.5	122 124 497	53 2766
7412	8.2	56 35.17	2.2106	0.0107	51 29 16.4	17.216	0.158	79.5	6 obs. [4]	51 3225
7413	8.8	56 44.64	2.1806	0.0106	52 28 16.8	17.223	0.155	74.8	347 348	52 3081
7414	8.8	56 49.86	2.1029	0.0100	54 46 34.4	17.227	0.150	74.3	129 131 498 499	54 2668
7415	8.9	56 57.86	2.2359	0.0108	50 43 54.1	17.233	0.159	74.3 74.5	254 255α 345 346	50 3524
7416	9.4	21 56 59.16	+2.2431	+0.0109	+ 50 29 32.4	+17.234	+0.160	74.8	341 342	50 3525
7417	8.6	57 2.60	2.1523	0.0105	53 23 34.5	17.237	0.153	76.8	491 493	53 2767
7418	8.8	57 6.09	2.2364	0.0109	50 44 41.7	17.239	0.159	78.8	254 255 744 745	50 3527
7419	8.4	57 6.90	2.1594	0.0105	53 11 43.2	17.240	0.153	71.8	122 124	53 2768
7420	9.0	57 7.42	2.2554	0.0109	50 5 58.8	17.240	0.160	75.8	435 436	50 3528
7421	9.0	21 57 11.72	+2.1876	+0.0107	+ 52 20 48.6	+17.244	+0.156	76.8	496 497	52 3082
7422	4.5	57 15.88	2.1902	0.0107	52 16 47.7	17.247	0.156	75.8	439 440	52 3083
7423	9.3	57 47.72	2.2519	0.0110	50 21 39.8	17.270	0.159	74.8	343 344	50 3531
7424	9.0	58 6.56	2.2586	0.0111	50 11 39.1	17.284	0.160	73.8	254 255	50 3533
7425	9.2	58 9.89	2.2078	0.0110	51 54 16.6	17.286	0.156	73.8	251 252	51 3232
7426	8.8	21 58 11.71	+2.2564	+0.0111	+ 50 17 21.4	+17.288	+0.159	74.8	341 342	50 3534
7427	9.4	58 13.12	2.1913	0.0109	52 26 17.9	17.289	0.154	75.3	345 346 435 436	52 3085
7428	7.4	58 53.07	2.1350	0.0106	54 16 31.7	17.318	0.150	71.8	122 124 129 131	54 2677
7429	8.9	59 1.12	2.1036	0.0104	55 11 33.6	17.324	0.147	76.8	439 440 586 587	55 2670
7430	7.6	59 1.76	2.2068	0.0111	52 6 47.9	17.325	0.155	75.8	435 436	52 3087
7431	8.9	21 59 1.82	+2.1959	+0.0110	+ 52 27 40.7	+17.325	+0.154	75.8	347 348 498 499	52 3086
7432	9.0	59 2.23	2.1041	0.0104	55 10 56.0	17.325	0.147	76.8	439 440 586 587	55 2671
7433	8.5	59 6.67	2.1918	0.0110	52 36 27.9	17.328	0.153	80.2 81.5	5 obs. [5]	52 3088
7434	7.8	59 23.77	2.1045	0.0104	55 14 30.8	17.341	0.147	83.8	733 734	55 2673
7435	9.4	59 46.96	2.2514	0.0114	50 47 45.0	17.358	0.157	74.5	255 341 342	50 3543
7436	9.3	21 59 50.10	+2.2140	+0.0113	+ 52 3 3.8	+17.360	+0.154	74.8	343 344	51 3240
7437	9.0	59 54.40	2.1972	0.0112	52 36 11.6	17.363	0.153	74.8	345 346	52 3091
7438	8.8	22 0 11.08	2.1758	0.0112	53 19 31.0	17.376	0.151	71.8	122 124	53 2777
7439	8.6	0 14.80	2.1822	0.0112	53 8 38.6	17.378	0.151	74.8	347 348	53 2778
7440	7.8	0 25.87	2.2466	0.0115	51 5 41.0	17.386	0.156	73.8	256 257	50 3549
7441	9.0	22 0 30.08	+2.1535	+0.0110	+ 54 3 51.5	+17.389	+0.149	78.8	689 690	53 2780
7442	9.1	0 30.22	2.1396	0.0109	54 28 20.2	17.389	0 148	71.8	129 131	54 2680
7443	8.6	0 37.64	2.2280	0.0114	51 45 35.2	17.395	0.154	74.8	343 344	51 3243
7444	8.4	0 38.94	2.1926	0.0113	52 54 11.2	17.396	0.151	75.8	439 440	52 3095
7445	9.1	0 44.20	2.2314	0.0115	51 40 15.8	17.400	0.154	73.8	251 252	51 3244
7446	9 1	22 0 47.20	+2.2653	+0.0116	+ 50 31 43.0	+17.402	+0.157	73.8	254 255	50 3551
7447	8.3	0 49.23	2.1658	0.0112	53 45 40.3	17.403	0.149	79.4	5 obs. [6]	53 2781
7448	9.2	0 54.18	2.2636	0.0116	50 36 49.0	17.407	0.156	74.8	341 342	50 3552
7449	9.0	0 54.80	2.2040	0.0114	52 35 51.0	17.407	0.152	76.8	498 499	52 3100
7450	9.2	0 55.14	2.2155	0.0115	52 13 45.2	17.408	0.153	83.9	744 745 749	52 3099

[1] Z. 498 580 581 749 750 [2] Dupl. aeq. praec. [3] Z. 744 med. 6.98 12.4 (Ep. 83.9)
[4] Z. 251 439 440 750 751 752 [5] Z. 345α 346 730 738 739 [6] Z. 580 581 691 692 733

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7451	8.8	22h 0m56.24	+2.2168	+0.0115	+ 52°11′27.8	+17.408	+0.153	78.8	6 obs. [1]	52°3101
7452	9.0	0 56.67	2.1991	0.0114	52 45 41.8	17.409	0.152	77.8	586 588 589 591	52 3102
7453	8.9	0 57.40	2.1665	0.0112	53 46 11.0	17.409	0.149	79.4	5 obs. [2]	53 2782
7454	9.0	1 11.45	2.2113	0.0115	52 25 30.0	17.419	0.152	77.7	563 564	52 3103
7455	6.9	1 23.18	2.1940	0.0115	53 0 55.8	17.428	0.151	75.4	347 348 439 440	52 3105
7456	9.3	22 1 26.68	+2.2706	+0.0117	+ 50 29 2.0	+17.430	+0.156	83.8	733.739	50 3556
7457	8.6	1 39.34	2.2495	0.0117	51 15 37.9	17.439	0.154	74.8	341 342	51 3246
7458	7.8	1 49.03	2.1432	0.0112	54 38 17.6	17.446	0.146	71.8	129 131	54 2683
7459	9.2	1 56.18	2.2786	0.0118	50 18 41.2	17.452	0.156	73.8	254 255	50 3560
7460	6.5	1 57.26	2.2532	0.0118	51 11 48.6	17.452	0.154	73.8	251 252	51 3248
7461	9.1	22 1 57.51	+2.1957	+0.0116	+ 53 4 52.8	+17.452	+0.150	74.8	343 344	52 3109
7462	8.2	2 0.97	2.2244	0.0117	52 10 31.4	17.455	0.152	74.8	345 346	52 3111
7463	8.8	2 3.92	2.1696	0.0114	53 54 35.4	17.457	0.148	71.8	122 124	53 2786
7464	8.6	2 11.34	2.2145	0.0117	52 31 56.5	17.462	0.151	76.8	491 493	52 3112
7465	8.9	2 29.92	2.1841	0.0116	53 33 31.1	17.476	0.149	81.8	572 744 745	53 2788
7466	8.2	22 2 32.56	+2.2323	+0.0118	+ 52 1 34.1	+17.478	+0.152	74.8	341 342	51 3251
7467	8.3	2 39.80	2.2607	0.0119	51 5 33.4	17.483	0.154	76.4	6 obs. [3]	50 3569
7468	9.1	2 40.10	2.2817	0.0119	50 21 34.3	17.483	0.155	74.8	256 257 439 440	50 3568
7469	8.6	2 47.83	2.2611	0.0119	51 6 31.2	17.488	0.154	83.9	749 750	51 3253
7470	5.4	2 48.08	2.2135	0.0118	52 41 49.5	17.489	0.149	76.8	498 499	52 3114
7471	9.0	22 2 48.68	+2.2825	+0.0120	+ 50 21 39.8	+17.489	+0.155	74.8	256 257 439 440	50 3571
7472	8.7	3 7.66	2.2717	0.0120	50 48 50.1	17.503	0.154	76.2	5 obs. [4]	50 3573
7473	8.4	3 11.40	2.1360	0.0114	55 8 4.6	17.505	0.144	77.7	563 564	55 2684
7474	8.8	3 11.53	2.2296	0.0119	52 15 29.4	17.505	0.152	74.8	343 344	52 3116
7475	8.8	3 12.89	2.2087	0.0119	52 56 24.0	17.506	0.150	83.9	749 750	52 3117
7476	8.8	22 3 15.88	+2.2670	+0.0120	+ 51 0 24.4	+17.509	+0.154	74.8	349 352	50 3575
7477	9.4	3 21.88	2.2110	0.0119	52 53 47.1	17.513	0.150	76.8	491 493	[52 3119]
7478	8.7	3 30.32	2.1656	0.0117	54 20 4.2	17.519	0.146	71.8	129 131	54 2688
7479	8.9	3 34.12	2.1748	0.0118	54 4 6.9	17.522	0.147	71.8	122 124	53 2791
7480	8.8	3 40.34	2.2477	0.0121	51 45 31.8	17.526	0.152	79.8	496 497 903	51 3259
7481	9.3	22 3 43.93	+2.1471	+0.0116	+ 54 55 37.2	+17.528	+0.144	76.3	439 440 498 499	54 2690
7482	9.3	3 46.66	2.2500	0.0121	51 42 9.1	17.530	0.152	77.8	251 252 895	[51 3260]
7483	9.0	3 49.51	2.2728	0.0122	50 55 42.3	17.532	0.154	76.2	5 obs. [5]	50 3578
7484	8.6	4 0.15	2.1908	0.0119	53 40 21.0	17.540	0.147	76.2	347 348 561 562	53 2793
7485	8.8	4 11.84	2.2975	0.0122	50 7 36.2	17.548	0.155	78.8	254 255 733 734	50 3580
7486	8.8	22 4 15.86	+2.2894	+0.0122	+ 50 25 59.6	+17.551	+0.155	74.8	343 344	50 3581
7487	8.6	4 17.99	2.2972	0.0122	50 9 47.8	17.552	0.154	74.8	5 obs. [6]	50 3582
7488	8.9	4 45.92	2.1996	0.0121	53 33 46.3	17.572	0.147	74.2	6 obs. [7]	53 2796
7489	8.2	4 52.12	2.2006	0.0120	53 33 15.2	17.577	0.147	76.6	8 obs. [8]	53 2798
7490	9.0	4 57.31	2.2914	0.0124	50 30 57.6	17.580	0.153	73.8	252 256 257	50 3588
7491	9.2	22 5 16.49	+2.2992	+0.0124	+ 50 18 24.9	+17.594	+0.153	74.4	5 obs. [9]	50 3592
7492	8.4	5 25.74	2.2981	0.0125	50 22 53.2	17.600	0.153	74.8	341 342	50 3594
7493	9.0	5 28.94	2.3021	0.0125	50 14 44.0	17.602	0.153	74.8	343 344	50 3595
7494	7.7	5 36.06	2.1932	0.0122	53 56 36.7	17.607	0.146	73.8	129 131 439 440	53 2800
7495	8.0	5 42.51	2.3051	0.0125	50 11 18.3	17.612	0.153	73.8	254α 255 256 257	50 3596
7496	8.9	22 5 44.81	+2.2308	+0.0124	+ 52 46 34.9	+17.613	+0.148	75.5	345 346 496	52 3126
7497	8.9	5 57.57	2.2825	0.0126	51 3 42.0	17.622	0.151	73.8	251 252	50 3599
7498	9.0	6 13.92	2.1928	0.0124	54 5 33.8	17.634	0.145	71.8	122 124	53 2802
7499	9.0	6 16.61	2.2635	0.0126	51 47 39.0	17.636	0.150	74.8	5 obs. [10]	51 3273
7500	5.8	6 18.60	2.3083	0.0126	50 12 23.9	17.637	0.152	73.8	254 255	50 3602

[1] Z. 345 346 582 583 749 750
[2] Z. 580 581 691 692 734
[3] Z. 347 348 349 350 352 746
[4] Z. 254 255 345 346 744
[5] Z. 256 257 341 342 746
[6] Z. 345 346 349 350 352
[7] Z. 122 124 347 348 439 440
[8] Z. 129 131 347 348 439 440 749 750
[9] Z. 254 255 349 350 352
[10] Z. 343 344 349 350 352

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7501	8.8	22h 6m 18s.68	+2s.2704	+0s.0126	+ 51°33′56″.9	+17″.637	+0″.150	74.8	341 342	51°3274
7502	8.7	6 19.08	2.3132	0.0126	50 1 33.5	17.637	0.153	80.8	580 581 745 746	49 3760
7503	8.9	6 29.00	2.2720	0.0126	51 32 44.4	17.644	0.150	83.9	749 750	51 3276
7504	8.2	6 30.64	2.2679	0.0127	51 41 48.2	17.645	0.150	73.8	256 257	51 3277
7505	9.0	6 36.10	2.2249	0.0126	53 9 31.6	17.649	0.147	74.8	347 348	53 2804
7506	8.4	22 6 43.56	+2.2495	+0.0127	+ 52 22 23.2	+17.654	+0.148	74.8	345 346	52 3132
7507	7.4	6 54.30	2.2671	0.0127	51 48 49.0	17.662	0.149	73.8	251 252	51 3281
7508	8.8	7 2.27	2.1804	0.0124	54 39 6.3	17.667	0.143	79.1	5 obs. [1]	54 2698
7509	8.3	7 10.99	2.3005	0.0128	50 41 25.3	17.673	0.151	79.9	5 obs. [2]	50 3606
7510	9.1	7 14.43	2.2749	0.0128	51 36 57.6	17.676	0.149	74.9	349 350 352	51 3283
7511	8.4	22 7 39.54	+2.2122	+0.0127	+ 53 48 3.7	+17.693	+0.144	75.8	439 440	53 2809
7512	9.1	7 40.20	2.2291	0.0128	53 15 36.7	17.693	0.146	71.8	122 124	53 2808
7513	9.2	7 42.53	2.2881	0.0129	51 15 32.4	17.695	0.149	74.8	341 342	51 3287
7514	9.4	7 44.60	2.2643	0.0129	52 5 56.7	17.696	0.148	81.6	344 733 738 739	51 3288
7515	7.0	7 46.15	2.1912	0.0126	54 28 51.2	17.697	0.142	77.4	496 563 564	54 2702
7516	9.0	22 7 46.44	+2.2223	+0.0128	+ 53 30 11.8	+17.698	+0.145	74.8	347 348	53 2810
7517	9.2	7 57.74	2.2365	0.0129	53 5 4.4	17.705	0.146	74.8	345 346	52 3141
7518	9.0	8 7.80	2.2256	0.0129	53 28 37.7	17.712	0.145	76.8	498 499	53 2811
7519	8.4	8 8.00	2.3097	0.0130	50 34 20.2	17.712	0.150	83.9	745 746	50 3616
7520	9.0	8 9.74	2.3202	0.0130	50 11 15.5	17.714	0.151	73.8	254 255 256 257	50 3615
7521	8.5	22 8 19.06	+2.2303	+0.0129	+ 53 21 58.9	+17.720	+0.145	74.9	349 350 352	53 2813
7522	8.2	8 20.37	2.2623	0.0130	52 18 8.8	17.721	0.147	81.8	561 749 750	52 3143
7523	9.2	8 23.03	2.2151	0.0129	53 52 15.6	17.723	0.144	77.7	569 572	53 2814
7524	8.8	8 28.32[3]	2.2424	0.0130	53 0 21.8	17.726	0.145	81.9 80.8	580δ 581 751 752	52 3144
7525	8.7	8 29.16[4]	2.2340	0.0130	53 17 5.6	17.727	0.145	83.2	582 895 903	53 2815
7526	9.0	22 8 30.63	+2.2025	+0.0128	+ 54 17 46.6	+17.728	+0.142	71.8	129 131	54 2706
7527	8.9	8 39.71	2.2350	0.0130	53 17 25.2	17.734	0.145	78.5	6 obs. [5]	53 2817
7528	8.8	8 39.72	2.2826	0.0131	51 40 17.2	17 734	0.148	73.8	251 252	51 3291
7529	7.4	8 40.18	2.1908	0.0128	54 41 43.2	17.734	0.142	77.4	496 563 564	54 2708
7530	7.0	8 40.66	2.2578	0.0131	52 32 5.4	17.735	0.146	74.8	347 348	52 3146
7531	7.9	22 8 46.22	+2.1864	+0.0128	+ 54 51 6.9	+17.738	+0.141	77.8	585 588 589 591	54 2709
7532	9.0	8 48.96	2.2162	0.0130	53 56 0.0	17.740	0.143	77.8	587 592	53 2819
7533	7.7	8 49.96	2.2759	0.0131	51 56 42.2	17.741	0.147	76.6	5 obs. [6]	51 3293
7534	9.6	8 50.33	2.2772	0.0131	51 54 10.4	17.741	0.147	85.2 84.9	746 893α 902	[51 3292]
7535	9 4	8 51.20	2.2767	0.0131	51 55 24.3	17.742	0.147	85.8	893 902α	51 3294
7536	7.9	22 8 55.57	+2.2815	+0.0132	+ 51 46 23.0	+17.745	+0.147	80.3	345 346 896 904	51 3295
7537	7.6	9 10.28	2.2578	0.0132	52 38 55.5	17.755	0.146	75.8	439 440	52 3149
7538	8.6	9 13.78	2.2727	0.0132	52 9 2.2	17.757	0.146	77.7	569 572	52 3150
7539	7.9	9 17.66	2.3102	0.0132	50 49 22.2	17.760	0.149	73.8	256 257	50 3624
7540	9.1	9 19.22	2.3266	0.0132	50 13 11.6	17.761	0.150	73.8	254 255	50 3623
7541	8.8	22 9 33.60	+2.2217	+0.0131	+ 53 55 34.8	+17.771	+0.142	76.8	498 499	53 2821
7542	8.0	9 35.93	2.2702	0.0133	52 19 11.1	17.772	0.146	74.9	349 350 352	52 3152
7543	7.6	9 37.82	2.2827	0.0133	51 53 36.8	17.773	0.146	73.8	251 252	51 3298
7544	9.5	9 40.09	2.2477	0.0132	53 6 0.2	17.775	0.144	83.9	749 750	53 2823
7545	8.7	9 40.63	2.2485	0.0132	53 4 39.0	17.775	0.144	77.8	6 obs. [7]	52 3153
7546	8.5	22 9 44.94	+2.1943	+0.0130	+ 54 49 47.9	+17.778	+0.140	75.4	5 obs. [8]	54 2716
7547	8.8	9 47.12	2.1827	0.0130	55 11 27.3	17.780	0.140	81.4	5 obs. [9]	55 2706
7548	8.9	9 47.52	2.1950	0.0131	54 49 9.5	17.780	0.140	77.5 77.6	5 obs. [10]	54 2717
7549	8.8	9 55.29	2.3316	0.0134	50 10 6.0	17.785	0.150	74.8	341 342	50 3625
7550	8.4	9 57.00	2.2639	0.0133	52 37 9.8	17.786	0.145	74.8	343 344	52 3155

[1] Z. 129 131 746 751 752
[2] Z. 254 255 745 749 750
[3] [27s.89] 28s.37 28s.29 28s.30
[4] 28s.96 29s.06 29s.47
[5] Z. 122 124 582 583 895 903
[6] Z. 341 342 343 344 751
[7] Z. 124 347 348 561 749 750
[8] Z. 129 131 563 564 587
[9] Z. 580 581 745 751 752
[10] Z. 496 563 564 586δ 587

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7551	7.9	22h 10m 12.86	+2.3150	+0.0134	+ 50° 51′ 50.3	+17.797	+0.148	74.8	345 346	50° 3627
7552	8.8	10 15.94	2.2286	0.0133	53 51 53.7	17.799	0.142	75.8	439 440	53 2824
7553	9.1	10 20.04	2.2284	0.0133	53 53 13.0	17.802	0.142	76.8	498 499	53 2825
7554	8.9	10 28.46	2.3185	0.0135	50 47 38.0	17.807	0.148	73.8	256 257	50 3629
7555	9.5	10 28.70	2.3225	0.0135	50 38 46.0	17.808	0.148	73.8	254 255	50 3628
7556	9.3	22 10 32.32	+2.3284	+0.0135	+ 50 26 14.6	+17.810	+0.148	74.9	350 352	50 3631
7557	9.0	10 33.85	2.2008	0.0133	54 48 49.0	17.811	0.140	71.8	129 131	54 2719
7558	9.8	10 40.24	2.2372	0.0134	53 40 44.2	17.815	0.142	74.8	347 348	53 2827
7559	8.5	10 47.60	2.2528	0.0135	53 11 27.2	17.820	0.143	77.7	561 562	53 2828
7560	8.7	10 48.82	2.3083	0.0136	51 14 57.2	17.821	0.147	73.8	251 252	51 3307
7561	7.5	22 10 54.44	+2.1909	+0.0133	+ 55 11 48.4	+17.825	+0.139	79.8	569 572 746	55 2709
7562	8.8	10 55.35	2.2372	0.0135	53 44 10.2	17.825	0.142	77.7	563 564	53 2829
7563	8 9	11 4.24	2.2784	0.0136	52 22 48.3	17.831	0.144	74.8	343 344	52 3161
7564	8.3	11 6.75 [1]	2.2332	0.0135	53 54 42.2	17.833	0.141	82.4 81.5	5 obs. [2]	53 2830
7565	7.5	11 11.42	2.2296	0.0135	54 2 53.3	17.836	0.141	76.8	498 499	53 2831
7566	8.0	22 11 20.17	+2.2258	+0.0135	+ 54 12 9.4	+17.842	+0.140	76.8	496 497	54 2722
7567	8.6	11 20.36	2.2945	0.0137	51 52 27.0	17.842	0.145	74.8	341 342	51 3309
7568	8.5	11 21.40	2.2156	0.0135	54 32 0.8	17.843	0.140	71.8	129 131	54 2723
7569	8.3	11 25.78	2.3333	0.0136	50 27 48.0	17.846	0.148	73.8	256 257	50 3637
7570	8.0	11 29.66	2.3358	0.0136	50 23 2.8	17.848	0.148	73.8	254 255	50 3638
7571	8.7	22 11 31.40	+2.2540	+0.0137	+ 53 19 13.8	+17.849	+0.142	74.9	350 352	53 2832
7572	9.0	11 34.41	2.2516	0.0137	53 24 41.3	17.851	0.142	71.8	122 124	53 2834
7573	8.8	11 34.66	2.3138	0.0137	51 13 41.3	17.852	0.146	74.8	347 348	51 3310
7574	9.2	11 35.59	2.2899	0.0137	52 5 54.9	17.852	0.144	78.5	439 440 751	51 3311
7575	8.4	12 15.59	2.2678	0.0138	53 1 35.3	17.879	0.142	74.8	343 344	52 3167
7576	9.0	22 12 15.98	+2.3433	+0.0138	+ 50 16 59.0	+17.879	+0.147	74.8	345 346	50 3646
7577	8.8	12 19.78	2.2868	0.0139	52 22 53.6	17.882	0.143	75.9	441 442	52 3168
7578	8.8	12 22.74	2.2334	0.0138	54 11 54.9	17.883	0.140	74.3	129 131 496 497	54 2727
7579	8.8	12 25.76	2.2434	0.0138	53 53 1.2	17.886	0.140	71.8	122 124	53 2838
7580	9.1	12 25.80	2.3423	0.0138	50 21 30.6	17.886	0.147	74.8	341 342	50 3649
7581	8.4	22 12 25.91	+2.3468	+0.0138	+ 50 11 7.4	+17.886	+0.147	81.9	5 obs. [3]	50 3648
7582	8.7	12 31.86	2.3536	0.0138	49 56 38.7	17.889	0.147	77.7	563 564	49 3803
7583	7.8	12 45.50	2.3357	0.0140	50 41 36.1	17.898	0.146	73.8	254 255	50 3651
7584	9.3	12 45.67	2.3097	0.0140	51 39 45.7	17.899	0.144	74.8	347 348 350 352	51 3317
7585	9.2	12 47.06	2.3057	0.0140	51 48 59.4	17.900	0.144	78.8	689 690	[51 3318]
7586	8.7	22 12 54.92	+2.3461	+0.0140	+ 50 19 51.2	+17.905	+0.146	74.5	256 345 346	50 3653
7587	9.0	13 11.10	2.3177	0.0140	51 28 13.5	17.915	0.144	76.5	440 498 499	51 3320
7588	8.7	13 13.05	2.3332	0.0140	50 53 56.7	17.917	0.145	74.8	341 342	50 3656
7589	9.4	13 19.56	2.3067	0.0141	51 54 34.4	17.921	0.143	82.5	582 752 895	51 3321
7590	8.8	13 24.94	2.2268	0.0140	54 39 23.6	17.924	0.138	71.8	129 131	54 2732
7591	9.4	22 13 27.26	+2.3494	+0.0140	+ 50 20 4.7	+17.926	+0.146	80.5	257 745 746	50 3657
7592	8.6	13 40.25	2.2529	0.0141	53 51 52.0	17.934	0.139	71.8	122 124	53 2841
7593	7.1	13 48.30	2.3066	0.0142	52 1 49.5	17.940	0.143	74.8	347 348 350 352	51 3324
7594	9.2	13 50.81	2.3412	0.0142	50 44 48.0	17.941	0.145	73.8	254 255	50 3658
7595	8.6	13 53.05	2.2520	0.0142	53 56 39.4	17.943	0.139	77.7	563 564 569	53 2842
7596	8.5	22 13 54.46	+2.3568	+0.0141	+ 50 9 27.2	+17.944	+0.146	74.8	343 344	50 3659
7597	8.8	14 0.30	2.3464	0.0142	50 35 8.0	17.947	0.145	74.8	345 346	50 3660
7598	9.3	14 2.33	2.2315	0.0142	54 39 9.0	17.949	0.138	76.8	496 497	54 2735
7599	8.9	14 4.36	2.3255	0.0142	51 23 52.1	17.950	0.144	75.9	441 442	51 3327
7600	8.2	14 8.32	2.2536	0.0142	53 57 3.9	17.953	0.138	82.4	572 746 749 750	53 2844

[1] [6.29] 6.78 6.82 6.87 6.53 [2] Z. 580∂ 581 745 749 750 [3] Z. 257 745 746 749 750

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7601	8.4	22h 14m 13s.13	+2s.3090	+0s.0143	+ 52° 2′ 33″.4	+17″.956	+0″.142	74.8	341 342	51° 3329
7602	8.6	14 16.06	2.3242	0.0143	51 29 37.9	17.958	0.143	76.5	440 498 499	51 3330
7603	8.4	14 17.20	2.3303	0.0143	51 16 15.2	17.958	0.144	76.8	352 582 583	51 3331
7604	8.6	14 26.19	2.2843	0.0144	52 58 38.2	17.964	0.140	80.8	580 581 733 734	52 3179
7605	9.2	14 30.81	2.3422	0.0143	50 52 22.4	17.967	0.144	73.8	256 257	50 3666
7606	9.6	22 14 41.03	+2.3331	+0.0144	+ 51 15 47.8	+17.974	+0.143	80.9	350 751 752	51 3332
7607	7.7	14 54.88	2.3079	0.0145	52 15 13.5	17.983	0.141	77.7	563 564 569 572	52 3181
7608	8.9	14 59.75	2.3668	0.0143	50 1 38.8	17.986	0.145	77.8	588 589 591	49 3818
7609	7.8	15 1.18	2.3322	0.0144	51 22 48.2	17.987	0.143	74.8	345 346	51 3334
7610	9.2	15 1.78	2.3247	0.0144	51 39 43.8	17.987	0.142	74.8	347 348	51 3335
7611	8.4	22 15 5.52	+2.3524	+0.0144	+ 50 37 22.8	+17.990	+0.144	73.8	254 255	50 3669
7612	9.0	15 6.14	2.3695	0.0144	49 56 53.5	17.990	0.145	82.4	587 746 749 750	49 3819
7613	8.5	15 8.19	2.3096	0.0145	52 14 39.7	17.991	0.141	77.7	563 569 572	52 3182
7614	8.7	15 11.95	2.3398	0.0145	51 8 1.3	17.994	0.143	75.9	441 442 443α	51 3337
7615	9.0	15 25.20	2.3267	0.0146	51 41 7.2	18.002	0.141	77.2 77.8	443α 582 583	51 3339
7616	7.1	22 15 29.16	+2.3391	+0.0145	+ 51 13 59.0	+18.005	+0.143	82.3	689 690 893 896	51 3341
7617	9.0	15 30.82	2.3615	0.0145	50 22 0.9	18.006	0.144	74.8	343 344	50 3672
7618	6.5	15 42.97	2.3632	0.0145	50 21 8.8	18.014	0.144	78.1	6 obs. [1]	50 3673
7619	8.2	15 46.27	2.2318	0.0145	55 3 20.9	18.016	0.135	79.8	129 738 739	54 2740
7620	9.2	15 47.18	2.3485	0.0146	50 56 46.6	18.016	0.142	74.9	350 352	50 3674
7621	8.5	22 15 48.31	+2.2878	+0.0146	+ 53 11 11.4	+18.017	+0.139	74.8	122 124 563 564	53 2849
7622	7.0	15 48.77	2.2578	0.0146	54 12 57.6	18.017	0.137	76.8	496 497	54 2741
7623	8.4	15 56.24	2.2450	0.0146	54 40 2.1	18.022	0.136	75.8	131 586 587	54 2742
7624	8.7	16 0.60	2.3180	0.0147	52 9 8.2	18.025	0.140	75.9	441 442 443	52 3185
7625	8.8	16 1.41	2.2901	0.0147	53 9 36.7	18.026	0.139	82.3	561 746 749 750	53 2851
7626	8.7	22 16 2.90	+2.3629	+0.0146	+ 50 26 49.7	+18.026	+0.143	74.3 74.5	254 255α 345 346	50 3676
7627	8.4	16 12.60	2.2726	0.0147	53 48 46.3	18.033	0.137	77.7	569 572	53 2852
7628	9.0	16 22.01	2.2654	0.0148	54 5 36.8	18.039	0.136	76.8	500 501	53 2855
7629	9.1	16 22.16	2.3658	0.0146	50 24 50.6	18.039	0.143	80.5 83.9	255α 751 752	50 3678
7630	8.1	16 26.12	2.2719	0.0148	53 53 32.4	18.041	0.136	83.8	733 734	53 2856
7631	9.2	22 16 28.56	+2.2412	+0.0147	+ 54 55 19.2	+18.043	+0.135	77.7	563 564 587	54 2745
7632	9.4	16 36.20	2.3049	0.0148	52 46 37.8	18.048	0.139	74.8	343 344	52 3189
7633	8.2	16 37.62	2.3569	0.0148	50 49 49.0	18.049	0.142	73.8	256 257	50 3680
7634	8.6	16 38.62	2.2518	0.0148	54 36 55.5	18.049	0.135	76.8	496 497	54 2746
7635	9.1	16 39.08	2.2913	0.0149	53 16 26.7	18.050	0.138	74.9	349 350 352	53 2857
7636	9.0	22 16 55.67	+2.2413	+0.0148	+ 55 1 38.8	+18.060	+0.134	71.8	129 131	54 2749
7637	8.8	16 59.11	2.3264	0.0149	52 5 6.7	18.062	0.140	75.3	7 obs. [2]	51 3350
7638	9.3	17 5.56	2.3494	0.0149	51 14 17.1	18.066	0.141	78.8	689 690	— —
7639	8.8	17 9.98	2.2882	0.0150	53 30 33.4	18.069	0.137	71.8	122 124	53 2858
7640	9.2	17 19.38	2.3510	0.0149	51 14 9.7	18.075	0.141	78.8	689 690	— —
7641	8.7	22 17 21.55	+2.2467	+0.0150	+ 54 57 26.4	+18.076	+0.134	77.6	561 562	54 2750
7642	9.2	17 26.55	2.3312	0.0150	52 1 15.0	18.080	0.139	80.4 77.7	563 564 902α	[51 3351]
7643	8.7	17 29.78	2.2714	0.0150	54 10 11.0	18.082	0.136	76.8	496 497	54 2751
7644	8.8	17 31.42	2.3621	0.0149	50 51 16.8	18.083	0.141	73.8	254 255	50 3685
7645	9.0	17 31.43	2.3323	0.0150	52 0 5.5	18.083	0.139	85.8	897 902	51 3352
7646	8.8	22 17 32.14	+2.3686	+0.0149	+ 50 35 52.5	+18.083	+0.142	73.8	256 257	50 3686
7647	8.5	17 45.45	2.3525	0.0150	51 17 13.8	18.092	0.140	77.8	569 586 587	51 3354
7648	9.0	17 45.58	2.3540	0.0150	51 13 45.8	18.092	0.140	76.8	498 499	51 3353
7649	9.4	17 58.77	2.3096	0.0152	52 57 12.2	18.100	0.137	74.8	343 344	52 3195
7650	9.4	18 12.72	2.3782	0.0150	50 23 11.7	18.109	0.141	74.8	345 346	50 3690

[1] Z. 256 257 343 344 895 897 [2] Z. 345 346 347 348 441 442 443

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7651	9.1	22h 18m 14s.44	+2s.2544	+0s.0152	+ 54° 55′ 20″.0	+18″.110	+0″.134	81.8	129 736 895 903	54° 2755
7652	8.6	18 15.94	2.3653	0.0151	50 54 59.1	18.111	0.140	74.8	347 348	50 3691
7653	8.9	18 16.43	2.3487	0.0152	51 34 8.3	18.111	0.139	75.9	441 442 443	51 3357
7654	8.0	18 17.45	2.2644	0.0152	54 36 5.9	18.112	0.134	81.4	5 obs. [1]	54 2756
7655	9.5	18 29.78	2.3776	0.0151	50 28 58.2	18.119	0.141	83.8	738 739	[50 3693]
7656	8.1	22 18 36.20	+2.3657	+0.0152	+ 50 59 10.8	+18.123	+0.140	74.3	254 255 350 352	50 3694
7657	8.6	18 37.01	2.2933	0.0153	53 41 38.8	18.124	0.135	71.8	122 124	53 2865
7658	**4.4**	**18 38.83**	**2.3503**	**0.0152**	**51 36 11.7**	**18.125**	**0.139**		**Fund. Cat.**	**51 3358**
7659	7.2	18 39.04	2.3766	0.0151	50 33 50.0	18.125	0.140	73.8	256 257	50 3695
7660	9.2	18 41.17	2.3794	0.0151	50 27 38.6	18.126	0.141	84.8	736 904	50 3696
7661	8.3	22 18 41.47	+2.3444	+0.0153	+ 51 50 24.3	+18.126	+0.139	77.8	586 587	51 3359
7662	9.1	18 44.26	2.2672	0.0153	54 37 9.7	18.128	0.134	77.1	496 497 561	54 2758
7663	9.2	18 45.01	2.3734	0.0152	50 43 2.4	18.129	0.140	76.8	498 499	[50 3697]
7664	8.7	18 48.36	2.3086	0.0154	53 11 51.4	18.131	0.136	76.8	500 501	53 2866
7665	9.4	18 54.69	2.3814	0.0152	50 26 18.1	18.135	0.140	85.8	896 904α	[50 3698]
7666	8.5	22 18 57.21	+2.2702	+0.0154	+ 54 34 29.0	+18.136	+0.133	81.8	562 746 750	54 2760
7667	8.5	19 3.50	2.3258	0.0154	52 38 4.4	18.140	0.137	75.8	343 344 592	52 3199
7668	8.9	19 14.92	2.3576	0.0154	51 28 18.4	18.147	0.138	74.8	345 346	51 3361
7669	8.8	19 20.62	2.3515	0.0154	51 44 8.3	18.151	0.138	75.9	441 442 443	51 3362
7670	8.7	19 26.61	2.3463	0.0155	51 57 35.0	18.155	0.137	74.8	347 348	51 3363
7671	9.8	22 19 31.52	+2.2863	+0.0155	+ 54 10 2.1	+18.158	+0.134	71.8	129 131	54 2765
7672	8.2	19 41.57	2.2856	0.0156	54 14 3.3	18.164	0.134	76.8	496 497	54 2769
7673	8.8	19 41.67	2.3612	0.0154	51 26 55.1	18.164	0.138	76.8	498 499	51 3366
7674	8.2	19 46.94	2.3447	0.0155	52 6 32.4	18.167	0.137	77.8	5 obs. [2]	52 3203
7675	9.0	19 47.93	2.3443	0.0155	52 7 47.3	18.168	0.137	81.8	563 736 737	52 3204
7676	8.7	22 19 51.82	+2.2915	+0.0156	+ 54 4 20.0	+18.170	+0.134	77.3	500 501 586 587	53 2868
7677	8.6	19 53.89	2.3671	0.0155	51 16 4.4	18.172	0.138	77.8	569 592	51 3368
7678	8.8	19 56.59	2.3616	0.0155	51 29 55.3	18.173	0.138	77.8	582 583	51 3369
7679	8.1	19 57.78	2.3011	0.0156	53 45 38.2	18.174	0.134	77.8	584 585	53 2869
7680	9.2	20 1.66	2.3327	0.0156	52 37 40.8	18.176	0.136	74.8	343 344	52 3205
7681	8.0	22 20 3.29	+2.2924	+0.0157	+ 54 5 15.8	+18.177	+0.133	77.8	586 587	53 2870
7682	7.0	20 3.57	2.3842	0.0154	50 37 15.6	18.178	0.139	73.8	254 255	50 3706
7683	8.6	20 8.52	2.2814	0.0157	54 29 26.8	18.180	0.133	77.6	561 562	54 2771
7684	8.7	20 11.32	2.3213	0.0157	53 5 25.0	18.182	0.135	77.8	588 589 591	52 3206
7685	8.6	20 22.69	2.3716	0.0156	51 13 0.7	18.189	0.138	78.6	8 obs. [3]	51 3371
7686	9.7	22 20 23.07	+2.3986	+0.0154	+ 50 6 42.7	+18.190	+0.139	73.8	256	50 3709
7687	9.0	20 32.43	2.3478	0.0157	52 11 11.7	18.195	0.136	74.9	350 352	52 3208
7688	9.5	20 44.59	2.4036	0.0155	49 59 55.0	18.203	0.139	83.3	564 749 895 897	49 3847
7689	7.6	20 45.67	2.3592	0.0157	51 48 13.7	18.203	0.136	74.8	347 348	51 3372
7690	8.6	20 52.42	2.3870	0.0156	50 43 27.0	18.208	0.138	74.8	343 344	50 3711
7691	8.7	22 20 54.42	+2.3166	+0.0159	+ 53 26 55.5	+18.209	+0.134	77.3	500 501 569 572	53 2873
7692	7.2	20 54.63	2.3239	0.0159	53 10 52.0	18.209	0.134	77.8	584 585	53 2874
7693	9.0	20 55.98	2.2842	0.0159	54 35 49.6	18.210	0.132	71.8	129 131	54 2772
7694	9.0	20 57.24	2.4025	0.0155	50 6 4.1	18.210	0.139	79.8	254 255 896 903	50 3712
7695	8.8	20 58.70	2.2714	0.0159	55 2 40.5	18.211	0.131	76.8	496 497	54 2773
7696	6.8	22 21 2.13	+2.3213	+0.0159	+ 53 18 33.4	+18.213	+0.134	77.8	586 587	53 2876
7697	8.3	21 6.52	2.3263	0.0159	53 8 46.8	18.216	0.134	81.8	592 736 737	53 2877
7698	9.0	21 10.82	2.4016	0.0156	50 12 4.9	18.219	0.139	76.8	498 499	50 3713
7699	8.9	21 11.10	2.3935	0.0156	50 32 13.4	18.219	0.138	74.9	350 352	50 3714
7700	9.0	21 13.54	2.3774	0.0158	51 12 28.9	18.220	0.137	75.9	441 442 443	[51 3373]

[1] Z. 561 564 746 749 750 [2] Z. 350 352 563 564 737 [3] Z. 345 346 441 442 443 746 751 752

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7701	8.7	22h 21m 13.56	+2.3906	+0.0157	+ 50°40′ 4.8	+18.220	+0.138	73.8	256 257	50°3715
7702	9.0	21 21.54	2.4071	0.0156	50 0 55.9	18.225	0.139	81.8 77.7	563 895α	[49 3852]
7703	8.4	21 24.59	2.3273	0.0160	53 11 19.1	18.227	0.134	82.3	561 746 747 748	53 2879
7704	8.2	21 34.64	2.3668	0.0159	51 43 24.2	18.233	0.136	76.8	345 582 583	51 3375
7705	7.4	21 35.31	2.3209	0.0160	53 28 5.0	18.234	0.133	77.7	563 564	53 2882
7706	8.8	22 21 42.44	+2.3069	+0.0161	+ 54 0 18.8	+18.238	+0.132	76.8	500 501	53 2883
7707	8.2	21 54.71	2.3123	0.0161	53 51 53.6	18.245	0.132	74.7	129 131 569 572	53 2884
7708	9.0	22 4.12	2.4018	0.0158	50 25 51.5	18.251	0.137	83.8	736 737 738 739	50 3719
7709	8.9	22 18.08	2.3156	0.0162	53 50 53.0	18.260	0.132	76.8	496 497	53 2887
7710	8.6	22 20.67	2.3530	0.0161	52 27 57.4	18.261	0.134	80.9	343 741 746	52 3212
7711	8.7	22 22 23.80	+2.4032	+0.0159	+ 50 27 28.2	+18.263	+0.137	73.8	254 255	50 3721
7712	9.4	22 23.83	2.3110	0.0162	54 2 14.5	18.263	0.131	77.2	500 501 561 562	53 2888
7713	9.2	22 29.75	2.3668	0.0161	51 58 10.9	18.267	0.134	75.9	441 442 443	51 3380
7714	8.0	22 34.05	2.3830	0.0161	51 20 22.8	18.269	0.136	76.1	345 498 499	51 3381
7715	9.2	22 42.31	2.3731	0.0162	51 46 26.0	18.274	0.135	77.7	563 564	51 3382
7716	7.6	22 22 42.97	+2.3958	+0.0160	+ 50 51 20.7	+18.274	+0.136	73.8	256 257	50 3725
7717	8.4	22 53.39	2.3602	0.0162	52 19 52.2	18.281	0.134	74.9	350 352	52 3213
7718	7.2	22 53.56	2.3952	0.0161	50 55 41.4	18.281	0.136	74.8	347 348	50 3726
7719	8.6	23 2.75	2.3806	0.0162	51 34 0.6	18.286	0.136	77.8	582 583	51 3384
7720	8.8	23 5.77	2.4194	0.0159	49 57 29.9	18.288	0.137	83.8	736 738 739	49 3862
7721	8.4	22 23 14.03	+2.3892	+0.0162	+ 51 16 2.6	+18.293	+0.135	76.8	442 443 569 572	51 3385
7722	9.4	23 15.55	2.3549	0.0164	52 38 6.7	18.294	0.133	77.8	586 587	52 3215
7723	9.1	23 16.18	2.3893	0.0162	51 16 22.4	18.294	0.135	76.4	441 442 443 569	51 3386
7724	9.2	23 16.26	2.4139	0.0160	50 14 31.6	18.294	0.136	74.8	343 344	50 3728
7725	9.4	23 17.94	2.3553	0.0164	52 37 55.8	18.295	0.133	77.8	586 587	52 3215
7726	7.9	22 23 23.80	+2.4047	+0.0161	+ 50 40 5.4	+18.299	+0.136	73.8	254 255	50 3730
7727	7.6	23 32.49	2.3674	0.0164	52 13 35.8	18.304	0.133	77.6	561 562	52 3217
7728	9.3	23 35.35	2.3478	0.0165	52 59 53.5	18.306	0.132	79.7	563 564 736	52 3218
7729	8.0	23 55.14	2.4162	0.0162	50 19 28.8	18.318	0.136	73.8	256 257	50 3733
7730	9.6	23 55.96	2.3893	0.0164	51 27 7.4	18.318	0.134	81.5	6 obs. [1]	51 3390
7731	7.5	22 24 2.00	+2.4041	+0.0163	+ 50 52 8.1	+18.322	+0.135	74.8	345 347 348	50 3734
7732	8.2	24 10.13	2.3741	0.0165	52 7 48.0	18.326	0.133	74.9	350 352	52 3221
7733	9.0	24 10.66	2.3198	0.0167	54 11 29.8	18.327	0.130	77.8	589 591	54 2786
7734	9.3	24 19.16	2.3203	0.0167	54 12 45.2	18.332	0.129	77.8	588 589	[54 2787]
7735	8.1	24 21.58	2.3690	0.0166	52 23 9.4	18.333	0.132	80.7	561 562 736 737	52 3222
7736	6.5	22 24 28.89	+2.3380	+0.0167	+ 53 36 22.8	+18.338	+0.130	76.8	496 497	53 2897
7737	8.3	24 33.04	2.3862	0.0166	51 44 55.8	18.340	0.133	75.9	441 442 443	51 3394
7738	7.7	24 33.65	2.3837	0.0166	51 51 5.6	18.340	0.133	77.2	498 569	51 3395
7739	8.6	24 33.96	2.3425	0.0168	53 27 36.2	18.340	0.130	76.8	500 501	53 2898
7740	8.9	24 34.22	2.3152	0.0168	54 27 43.2	18.341	0.129	77.7	563 564	54 2788
7741	9.0	22 24 41.48	+2.3708	+0.0167	+ 52 24 13.7	+18.345	+0.132	77.8	586 587	52 3225
7742	6.5	24 53.52	2.3878	0.0166	51 46 34.2	18.352	0.132	74.8	345 350 352	51 3396
7743	9.0	24 56.67	2.4133	0.0165	50 43 47.2	18.354	0.134	73.8	256 257	50 3737
7744	8.7	24 57.22	2.3534	0.0168	53 9 6.7	18.354	0.130	81.8	589 591 902 903	53 2900
7745	8.6	25 20.92	2.3400	0.0170	53 45 51.0	18.368	0.129	76.8	498 499	53 2902
7746	9.3	22 25 33.30	+2.4210	+0.0166	+ 50 34 15.6	+18.375	+0.133	74.8	347 348	50 3739
7747	8.8[2]	25 38.89	2.3652	0.0170	52 53 16.8	18.379	0.130	83.9	741 [3]	52 3229
7748	8.6	25 47.22	2.3461	0.0171	53 39 27.2	18.384	0.129	76.8	496 497	53 2904
7749	8.5	25 49.16	2.3302	0.0171	54 15 24.4	18.385	0.128	76.8	500 501	54 2793
7750	9.1	25 59.70	2.4169	0.0167	50 52 17.8	18.391	0.133	73.8	256 257	50 3740

[1] Z. 498 499 746 748 749 750 [2] Dupl. maj. [3] Z. 747 dupl. 8m.3 & 8m.7 med. 38s.94 18s.9 (Ep. 83.9)

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7751	9.2	22h 25m 59.88	+2.3727	+0.0170	+ 52° 41′ 14.2	+18.391	+0.130	77.6	561 562	[52° 3231]
7752	7.8	26 9.48	2.4327	0.0166	50 13 50.4	18.396	0.133	76.5	6 obs. [1]	50 3741
7753	9.3	26 15.43	2.4016	0.0169	51 35 29.5	18.400	0.131	75.9	441 442 443	51 3406
7754	7.8	26 19.00	2.4400	0.0166	49 57 11.8	18.402	0.134	77.7	563 564	49 3877
7755	8.4	26 19.70	2.4281	0.0168	50 28 55.6	18.402	0.133	76.8	498 499	50 3742
7756	8.4	22 26 32.02	+2.3881	+0.0171	+ 52 13 26.4	+18.410	+0.130	77.8	584 585	52 3232
7757	8.0	26 33.92	2.4269	0.0168	50 35 58.2	18.411	0.132	73.8	256 257	50 3743
7758	9.7	26 41.14	2.4098	0.0170	51 22 5.8	18.415	0.131	74.8	347 348	— —
7759	8.8	26 43.54	2.3276	0.0174	54 35 54.2	18.416	0.126	80.8	586 587 736 737	54 2794
7760	8.7	26 50.40	2.3964	0.0171	51 58 16.1	18.420	0.130	81.2	446 740 741	51 3407
7761	8.8	22 27 1.88	+2.3241	+0.0174	+ 54 48 32.4	+18.427	+0.126	76.8	500 501	54 2795
7762	8.4	27 3.48	2.3876	0.0172	52 23 18.3	18.428	0.129	77.6	561 562	52 3235
7763	8.2	27 15.71	2.3731	0.0174	53 1 34.5	18.435	0.128	75.9	441 442 443	52 3236
7764	9.0	27 16.98	2.4158	0.0171	51 17 2.8	18.435	0.131	74.9	350 352	51 3410
7765	6.7	27 21.50	2.3644	0.0174	53 23 36.6	18.438	0.128	76.8	498 499	53 2910
7766	8.6	22 27 23.36	+2.3852	+0.0173	+ 52 34 47.4	+18.439	+0.129	77.7	563 564	52 3237
7767	...[2]	27 23.78	2.3338	0.0175	54 33 23.7	18.439	0.126	77.5	503 584 585 [8]	54 2796
7768	9.3	27 24.15	2.3852	0.0174	52 34 55.9	18.440	0.129	77.7	563 564	52 3237
7769	9.0	27 54.09	2.4362	0.0171	50 34 20.8	18.457	0.131	73.8	256 257	50 3748
7770	9.4	28 0.40	2.4375	0.0171	50 32 57.8	18.460	0.132	74.8	347 348	50 3749
7771	8.7	22 28 4.53	+2.3668	+0.0176	+ 53 30 3.1	+18.463	+0.127	76.3	5 obs. [4]	53 2914
7772	9.1	28 9.06	2.4520	0.0170	49 56 18.6	18.465	0.132	77.8	582 583	49 3890
7773	8.5	28 11.45	2.3425	0.0177	54 27 16.4	18.467	0.125	77.3	500 501 584 585	54 2798
7774	8.7	28 19.72	2.3525	0.0177	54 7 16.9	18.471	0.125	77.3	502 503 563 564	54 2800
7775	9.1	28 20.67	2.3478	0.0178	54 18 11.5	18.472	0.125	77.6	561 562	54 2802
7776	9.2	22 28 23.08	+2.3914	+0.0176	+ 52 36 49.2	+18.473	+0.128	75.8	350 352 498 499	52 3241
7777	8.8	28 27.60	2.3693	0.0177	53 30 42.5	18.476	0.126	75.9	441 442 443 446	53 2915
7778	8.8	28 57.64	2.4101	0.0176	52 0 22.2	18.493	0.128	74.8	347 348	51 3415
7779	7.8	29 11.44	2.3764	0.0179	53 26 25.2	18.500	0.126	75.5	5 obs. [5]	53 2918
7780	9.1	29 20.90	2.4095	0.0177	52 8 33.0	18.506	0.127	83.8	736 737	52 3243
7781	8.6	22 29 41.66	+2.3703	+0.0181	+ 53 49 35.4	+18.517	+0.125	75.9	441 442 443	53 2920
7782	8.8	29 46.52	2.4538	0.0174	50 20 3.2	18.520	0.129	73 8	256 257	50 3755
7783	8.8	29 56.36	2.4088	0.0179	52 20 39.6	18.526	0.126	74.9	350 352	52 3245
7784	8.7	30 10.83	2.4631	0.0174	50 1 32.2	18.534	0.129	77.8	582 583	49 3900
7785	8.7	30 10.96	2.4354	0.0177	51 16 40.2	18.534	0.128	79.4	347 348 747 748	51 3419
7786	8.8	22 30 15.73	+2.3947	+0.0181	+ 53 1 12.7	+18.536	+0.125	76.5	446 498 499	52 3246
7787	8.4	30 18.84	2.3781	0.0182	53 41 57.8	18.538	0.124	76.9	502 503	53 2922
7788	8.8	30 36.72	2.4193	0.0180	52 5 49.3	18.548	0.126	74.9	350 352	51 3420
7789	8.9	30 37.99	2.3755	0.0183	53 53 29.4	18.549	0.124	75.9	441 442 443	53 2923
7790	8.2	30 39.26	2.4087	0.0181	52 33 21.2	18.550	0.125	77.7	563 564	52 3247
7791	8.1	22 30 39.93	+2.3838	+0.0183	+ 53 34 29.0	+18.550	+0.124	77.8	584 585	53 2924
7792	8.8	30 51.78	2.4692	0.0176	49 56 52.6	18.556	0.129	83.8	736 737	49 3905
7793	9.0	31 5.01	2.3531	0.0186	54 52 48.1	18.564	0.122	79.8	586 587 738	[54 2814]
7794	8.9	31 6.50	2.3659	0.0185	54 24 5.6	18.565	0.122	79.4 78.5	8 obs. [6]	54 2815
7795	8.6	31 8.49	2.3657	0.0185	54 25 7.2	18.566	0.122	82.9	8 obs. [7]	54 2816
7796	9.0	22 31 10.27	+2.3657	+0.0185	+ 54 25 46.8	+18.567	+0.122	82.5	8 obs. [8]	54 2817
7797	8.7	31 14.46	2.3655	0.0186	54 27 15.8	18.569	0.122	84.6 84.9	748 750α 904	54 2818
7768	8.1	31 32.66	2.4009	0.0184	53 8 24.9	18.579	0.124	77.6	561 562	53 2931
7799	9.6	31 40.12	2.4327	0.0182	51 50 5.2	18.583	0.125	74.8	347 348	51 3424
7800	9.1	31 45.78	2.4680	0.0178	50 16 31.6	18.586	0.127	73.8	256 257	50 3766

[1] Z. 350 352 446 588 589 591

[2] Dupl. med.; magns. Z. 503 8.7 9.3 Z. 584 9.2 8.9 Z. 585 9.2 9.0

[3] Z. 502 maj. 8.8 23.80 23.1 (Ep. 76.9)

[4] Z. 442 443 446 496 497

[5] Z. 128 446 447 500 501

[6] Z. 128 502 503 597 598 740 741 897α

[7] Z. 597 598 739 740 741 749 897 900

[8] Z. 500 501 739 740 747 748 750 897

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7801	8.0	$22^h 31^m 47^s.44$	+2ˢ.4641	+0ˢ.0179	+ 50°27′47″.4	+18″.587	+0″.127	77.0	7 obs. [1]	50° 3767
7802	7.6	31 47.70	2.3870	0.0186	53 46 32.0	18.587	0.123	75.9	441 442 443	53 2932
7803	8.4	31 59.78	2.4481	0.0181	51 15 9.0	18.594	0.126	71.9	133 136	51 3426
7804	8.2	32 5.53	2.4623	0.0180	50 38 15.2	18.597	0.126	78.8	691 692	50 3768
7805	8.6	32 6.30	2.4682	0.0179	50 22 1.7	18.597	0.127	83.9	748 749 750	50 3769
7806	9.2	22 32 7.23[2]	+2.3938	+0.0187	+ 53 36 1.8	+18.598	+0.123	82.4	597 738 739 740	53 2933
7807	9.3	32 14.21	2.4268	0.0184	52 15 46.5	18.602	0.124	78.4	563 695 696	52 3251
7808	5.7	32 14.54	2.4576	0.0181	50 54 1.8	18.602	0.126	73.9	258 260 -	50 3770
7809	9.4	32 15.20	2.3710	0.0188	54 32 18.0	18.602	0.121	76.9	502 503	— —
7810	9.1	32 20.56	2.4034	0.0186	53 16 25.3	18.605	0.123	79.9 78.8	5 obs. [3]	53 2935
7811	8.8	22 32 21.48	+2.4027	+0.0187	+ 53 18 37.6	+18.606	+0.123	78.9	701 702	53 2937
7812	9.5	32 21.66	2.3942	0.0187	53 39 29.0	18.606	0.122	78.8	697 699 700	[53 2936]
7813	8.9	32 23.05	2.3736	0.0188	54 28 35.2	18.607	0.121	75.1	128 500 501	54 2822
7814	8.6	32 24.34	2.4794	0.0179	49 56 7.5	18.607	0.127	77.6	561 562	49 3908
7815	8.8	32 34.26	2.4048	0.0187	53 17 13.8	18.613	0.122	83.9	751 752	53 2939
7816	9.1	22 32 40.16	+2.4350	+0.0185	+ 52 2 18.0	+18.616	+0.124	74.8	347 348	51 3428
7817	9.1	32 50.20	2.4504	0.0184	51 24 14.2	18.621	0.125	71.9	133 136	51 3430
7818	9.0	32 57.05	2.4343	0.0186	52 9 15.5	18.625	0.124	81.8	592 736 737	52 3252
7819	8.9	33 12.45	2.4215	0.0188	52 46 47.4	18.633	0.122	77.6	561 562	52 3254
7820	9.2	33 13.56	2.3905	0.0190	54 3 37.1	18.634	0.121	75.9	441 442 443	53 2942
7821	8.9	22 33 14.35	+2.4460	+0.0185	+ 51 43 35.6	+18.634	+0.124	76.2	5 obs. [4]	51 3433
7822	8.9	33 15.14	2.3689	0.0191	54 54 56.1	18.635	0.119	79.7	6 obs. [5]	54 2824
7823	9.4	33 15.31	2.4463	0.0185	51 43 7.3	18.635	0.124	77.2	446 586 587	51 3434
7824	9.5	33 17.52	2.3839	0.0191	54 20 32.4	18.636	0.120	74.3	128 500	54 2825
7825	8.8	33 17.64	2.4747	0.0182	50 25 51.0	18.636	0.125	73.8	256 257	50 3772
7826	8.8	22 33 27.42	+2.4184	+0.0189	+ 52 59 13.0	+18.641	+0.122	83.9	749 750	52 3255
7827	8.9	33 28.53[6]	2.4280	0.0188	52 35 7.4	18.642	0.122	82.4 83.5	692 903δ 904	52 3256
7828	8.4	33 33.85	2.4369	0.0187	52 13 27.4	18.645	0.123	78.8	695 696	52 3257
7829	9.0	33 41.24	2.4613	0.0185	51 10 21.6	18.649	0.124	71.9	133 136	51 3436
7830	9.2	33 42.04	2.4294	0.0188	52 35 37.6	18.649	0.122	78.8	691 692	— —
7831	8.4	22 33 55.74	+2.3909	+0.0192	+ 54 15 18.0	+18.656	+0.120	81.9	597 900	54 2827
7832	8.3	33 57.43[7]	2.3820	0.0193	54 37 2.2	18.657	0.119	82 4	592 736 749 750	54 2828
7833	9.0	33 57.99	2.4774	0.0184	50 30 41.6	18.658	0.124	74.5	5 obs. [8]	50 3775
7834	6.6	34 20.60	2.4800	0.0184	50 30 11 9	18.670	0.124	80.8	347 738 739	50 3780
7835	8.3	34 25.62	2.3911	0.0194	54 23 53.0	18.672	0.119	79.9	128 740 741	54 2830
7836	8.9	22 34 26.76	+2.4921	+0.0183	+ 49 57 21.4	+18.673	+0.124	77.7	563 564	49 3915
7837	9.4	34 30.56	2.4784	0.0185	50 37 58.3	18.675	0.124	73.8	256 257	50 3784
7838	9.2	34 33.09	2.4061	0.0193	53 49 47.5	18.676	0.120	78.8	691 692	[53 2944]
7839	8.7	34 33.40	2.4614	0.0188	51 26 10.6	18.676	0.123	74.9	350 352	51 3437
7840	9.0	34 40.48	2.3946	0.0194	54 20 9.2	18.680	0.119	76.8	500 501	54 2831
7841	8.5	22 34 40.87	+2.4022	+0.0194	+ 54 1 50.5	+18.681	+0.119	75.9	441 442 443	53 2945
7842	9.3	34 44.26	2.4075	0.0194	53 49 46.9	18.682	0.120	77.9	5 obs. [9]	53 2946
7843	9.0	34 46.35	2.4844	0.0185	50 25 54.9	18.684	0.124	77.0	446 561 562	50 3787
7844	8.6	34 54.22	2.4743	0.0187	50 57 1.6	18.688	0.123	73.9	258 259 260	50 3788
7845	9.4	34 54.50	2.4497	0.0190	52 4 27.0	18.688	0.122	71.9	133 136	51 3440
7846	9.2	22 35 0.23	+2.3824	+0.0196	+ 54 54 59.8	+18.691	+0.118	77.8	582 583	54 2832
7847	7.4	35 6.64[10]	2.4768	0.0187	50 53 43.1	18.694	0.123	80.8 81.8	592 736 737δ	50 3789
7848	8.8	35 10.98	2.4615	0.0190	51 37 45.0	18.696	0.122	77.7	563 564	51 3442
7849	5.6	35 13.37	2.4262	0.0193	53 11 42.0	18.698	0.120	78.8	693 694	53 2950
7850	8.3	35 17.72	2.3832	0.0197	54 58 23.5	18.700	0.117	79.8	128 738 739	54 2834

[1] Z. 350 352 446 586 587 693 694
[2] 6ˢ.95 7ˢ.31 7ˢ.44 7ˢ.23
[3] Z. 693 694 701 702 751α
[4] Z. 350 352 446 586 587
[5] Z. 502 563 597 598 738 739
[6] 28ˢ.50 [29ˢ.27] 28ˢ.56
[7] 57ˢ.13 57ˢ.55 57ˢ.44 57ˢ.60
[8] Z. 258 259 260 347 447
[9] Z. 502 503 598 691 692
[10] 6ˢ.61 6ˢ.67 [7ˢ.32]

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7851	9.0	$22^h\ 35^m\ 17^s.87$	+2ˢ.3969	+0ˢ.0196	+ 54°25′53″.7	+18″.700	+0″.118	77.8	586 587 588α 591	54°2833
7852	9.2	35 30.02	2.4467	0.0192	52 23 36.6	18.706	0.120	81.2	446 740 741	52 3263
7853	8.9	35 30.86	2.4897	0.0187	50 24 30.7	18.707	0.123	74.9	347 350 352	50 3790
7854	9.0	35 38.20	2.4838	0.0188	50 43 58.2	18.711	0.122	73.8	256 257	50 3792
7855	8.4	35 38.32	2.4276	0.0195	53 15 58.8	18.711	0.120	75.9	442 443	53 2952
7856	8.8	22 35 45.24	+2.4020	+0.0197	+ 54 21 58.2	+18.714	+0.118	76.8	500 501	54 2836
7857	6.5	35 51.63	2.4774	0.0190	51 6 20.6	18.718	0.122	71.9	133 136	51 3444
7858	8.3	36 13.33	2.4971	0.0188	50 16 35.3	18.729	0.122	73.9	258 259 260	50 3794
7859	8.6	36 18.13	2.4287	0.0197	53 25 32.7	18.732	0.118	77.0	5 obs. [1]	53 2957
7860	8.8	36 24.85	2.3975	0.0200	54 45 2.7	18.735	0.116	81.4	5 obs. [2]	54 2837
7861	7.7	22 36 29.74	+2.4229	+0.0198	+ 53 44 2.1	+18.738	+0.118	79.9	446 447 740 741	53 2958
7862	8.7	36 55.09	2.4613	0.0195	52 11 15.6	18.751	0.119	76.7	347 563 564	52 3269
7863	8.5	36 58.35	2.4678	0.0195	51 54 30.1	18.753	0.119	71.9	133 134 136	51 3447
7864	9.4	36 58.50	2.4455	0.0197	52 54 39.8	18.753	0.118	74.9	350 352	52 3270
7865	8.0	37 9.91	2.4639	0.0195	52 8 58.2	18.758	0.119	77.8	582 583	52 3271
7866	5.8	22 37 14.27	+2.4395	+0.0199	+ 53 15 18.2	+18.761	+0.118	76.8	500 501	53 2960
7867	8.1	37 14.68	2.4776	0.0194	51 32 25.0	18.761	0.119	73.8	256 257	51 3449
7868	7.5	37 18.30	2.4321	0.0200	53 35 41.1	18.763	0.117	77.2	502 503 561 562	53 2961
7869	9.2	37 29.60	2.4584	0.0198	52 30 4.4	18.769	0.118	75.9	442 443	52 3272
7870	8.8	37 31.71	2.5034	0.0191	50 23 21.8	18.770	0.120	73.9	258 259 260	50 3797
7871	8.4	22 37 36.16	+2.5093	+0.0191	+ 50 7 12.2	+18.772	+0.121	77.8	587 588 591	50 3798
7872	9.4	37 36.39	2.4400	0.0200	53 21 11.0	18.772	0.117	83.8	736 738 739	53 2962
7873	7.4	37 47.24	2.4238	0.0202	54 6 9.9	18.778	0.116	77.7	563 564	53 2963
7874	9.1	37 48.94	2.4921	0.0194	51 1 57.8	18.779	0.119	76.6	446 447 592	50 3799
7875	9.6	37 56.71	2.4740	0.0197	51 55 54.4	18.783	0.118	76.3	347 350 584 585	51 3451
7876	8.4	22 38 5.01	+2.4982	+0.0194	+ 50 49 31.4	+18.787	+0.119	78.8	693 694	50 3802
7877	9.0	38 9.47	2.4832	0.0196	51 34 10.4	18.789	0.118	71.9	133 134 136	51 3452
7878	8.6	38 26.19	2.4542	0.0201	52 59 35.6	18.798	0.116	75.9	442 443	52 3274
7879	9.2	38 36.56	2.4160	0.0206	54 41 12.1	18.803	0.114	71.8	126 128	54 2843
7880	8.6	38 49.76	2.5166	0.0194	50 9 15.7	18.810	0.119	83.8	736 737 738 739	50 3807
7881	9.6	22 38 54.00	+2.5110	+0.0195	+ 50 27 34.6	+18.812	+0.119	73.8	256 257	50 3808
7882	9.4	39 1.60	2.4490	0.0204	53 24 49.1	18.816	0.116	78.8	691 692	— —
7883	7.5	39 3.14	2.5054	0.0196	50 47 28.2	18.816	0.118	73.9	258 259 260	50 3809
7884	8.8	39 4.20	2.4136	0.0208	54 56 0.2	18.817	0.114	76.8	500 501	54 2846
7885	9.2	39 6.50	2.4905	0.0199	51 32 9.2	18.818	0.117	71.9	133 134 136	51 3455
7886	7.2	22 39 21.22	+2.4585	+0.0204	+ 53 6 2.8	+18.825	+0.115	75.9	442 443	52 3280
7887	8.8	39 22.86	2.4807	0.0201	52 5 27.0	18.826	0.117	76.3	347 350 584 585	51 3457
7888	8.8	39 26.61	2.4837	0.0201	51 58 6.0	18.828	0.117	75.9	446 447 449	51 3458
7889	8.9	39 26.81	2.4477	0.0205	53 36 38.0	18.828	0.115	77.2	502 503 561 562	53 2969
7890	8.2	39 32.40	2.4107	0.0210	55 12 4.9	18.831	0.113	81.9	592 740 741	55 2800
7891	6.9	22 39 36.74	+2.4872	+0.0201	+ 51 51 38.6	+18.833	+0.116	77.8	587 588 591	51 3460
7892	8.0	39 37.64	2.4705	0.0203	52 38 47.8	18.834	0.116	77.8	582 583	52 3281
7893	8.6	39 39.87	2.4531	0.0205	53 26 32.1	18.835	0.115	83.8	736 737 738 739	53 2971
7894	8.8	40 2.18	2.4359	0.0209	54 18 44.6	18.846	0.113	71.8	126 128	54 2849
7895	8.2	40 6.76	2.5117	0.0198	50 49 55.2	18.848	0.117	73.8	256 257	50 3817
7896	7.8	22 40 11.44	+2.4429	+0.0208	+ 54 3 44.0	+18.850	+0.113	78.4	597 598 695 696	53 2973
7897	7.9	40 18.71	2.5163	0.0198	50 39 58.2	18.854	0.117	73.9	258 259 260	50 3818
7898	8.6	40 20.00	2.4386	0.0210	54 17 29.3	18.855	0.113	76.8	500 501	54 2851
7899	7.8	40 21.32	2.4742	0.0205	52 43 3.8	18.855	0.115	74.8	347 348	52 3286
7900	7.3	40 23.66	2.4848	0.0204	52 14 2.0	18.857	0.115	74.9	350 352	52 3288

[1] Z. 442 502 503α 561 562 [2] Z. 128 736 737 738 739

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7901	8.9	22h 40m 26.16	+2.4455	+0.0209	+ 54° 1′ 49.0	+18.858	+0.113	77.4	442 443 695 696	53° 2974
7902	8.7	40 30.31	2.4537	0.0208	53 41 32.7	18.860	0.114	75.9	446 447 449	53 2975
7903	9.0	40 35.67	2.4937	0.0203	51 52 32.6	18.862	0.115	71.9	133 134 136	51 3462
7904	8.9	40 51.65 [1]	2.4446	0.0211	54 12 24.6	18.870	0.113	77.4	502 503 587 591	54 2852
7905	7.9	40 51.94	2.5044	0.0202	51 26 51.2	18.871	0.116	80.5	6 obs. [2]	51 3464
7906	9.6	22 40 57.52	+2.4296	+0.0213	+ 54 52 45.8	+18.873	+0.112	81.8	592 738 739	54 2853
7907	8.8	40 58.04	2.4385	0.0212	54 30 20.1	18.874	0.112	71.8	126 128	54 2854
7908	8.9	41 19.55	2.4841	0.0207	52 34 48.5	18.884	0.114	79.4	350 352 740 741	52 3290
7909	7.0	41 21.79	2.4483	0.0212	54 12 50.6	18.885	0.112	77.3	500 501 587 588	54 2856
7910	9.8	41 24.25	2.4478	0.0212	54 14 47.6 [3]	18.886	0.112	78.8	697 699	54 2858
7911	8.9	22 41 27.34	+2.4479	+0.0212	+ 54 15 43.2	+18.888	+0.112	77.9	597 598	
7912	7.8	41 30.04	2.4768	0.0209	52 58 53.2	18.889	0.113	74.8	347 348	52 3291
7913	8.6	41 39.51	2.4735	0.0210	53 11 5.4	18.894	0.113	75.9	442 443	53 2983
7914	8.0	41 42 57	2.4748	0.0210	53 8 35.1	18.895	0.113	75.9	446 447 449	53 2984
7915	8.6	41 43.30	2.4901	0.0208	52 25 52.2	18.896	0.113	77.6	561 562	52 3292
7916	8.2	22 41 43.87	+2.4717	+0.0210	+ 53 17 38.8	+18.896	+0.113	78.8	691 692	53 2985
7917	9.2	41 44.47	2.5086	0.0205	51 32 19.9	18.896	0.114	71.9	133 134 136	51 3466
7918	8.2	41 48.50	2.4765	0.0210	53 5 54.0	18.898	0.113	78.8	693 694	52 3293
7919	8.9	41 53.74	2.5111	0.0205	51 28 12.4	18.901	0.114	73.9	258 259 260	51 3467
7920	7.5	42 2.57	2.4562	0.0214	54 5 36.2	18.905	0.111	79.4	587 597 598 737	53 2987
7921	6.9	22 42 6.62	+2.4867	+0.0210	+ 52 43 26.1	+18.907	+0.113	78.5	594 695 696	52 3295
7922	8.5	42 19.04	2.5178	0.0205	51 16 44 3	18.913	0.114	74.9	134 446 447 449	51 3469
7923	8.9	42 25.63	2.4831	0.0211	53 0 1.2	18.916	0.112	74.8	347 348	52 3296
7924	9.0	42 26.03	2.5008	0.0208	52 9 37.6	18.917	0.113	74.9	350 352	52 3297
7925	9.0	42 28.58	2.5337	0.0203	50 31 4.2	18.918	0.114	73.8	256 257	50 3828
7926	8.5	22 42 33.32	+2.5034	+0.0208	+ 52 4 31.4	+18.920	+0.113	75.9	442 443	51 3470
7927	7.6	42 37.86	2.5191	0.0206	51 19 11.6	18.922	0.113	79.9	6 obs. [4]	51 3471
7928	9.0	43 4.90	2.4798	0.0214	53 22 36.6	18.935	0.111	76.8	500 501	53 2991
7929	9.0	43 15.32	2.4606	0.0218	54 18 25.1	18.940	0.110	71.8	126 128	54 2864
7930	8.4 [5]	43 15.96	2.4787	0.0215	53 29 39.8	18.941	0.111	75.9	446 449 [6]	53 2992
7931	8.6	22 43 18.08	+2.4418	+0.0220	+ 55 8 28.9	+18.942	+0.109	80.8	587 592 738 739	55 2814
7932	9.0	43 32.54	2.5275	0.0208	51 12 39.4	18.948	0.112	74.9	350 352	51 3474
7933	9.2	43 33.92	2.5459	0.0204	50 15 19.1	18.949	0.113	73.9	258 259 260	50 3833
7934	8.9	43 34.30	2.4595	0.0219	54 27 57.6	18.949	0.109	77.8	588 591	54 2865
7935	6.0	43 36.61	2.4756	0.0217	53 45 16.6	18.950	0.110	79.4 79.9	6 obs. [7]	53 2993
7936	8.4	22 43 44.44	+2.5269	+0.0209	+ 51 18 41.5	+18.954	+0.112	71.9	133 134	51 3476
7937	6.8	43 57.82	2.5473	0.0205	50 19 16.8	18.961	0.113	73.8	256 257	50 3836
7938	9.5	43 59.16	2.5380	0.0207	50 49 21.0	18.961	0.112	75.9	442 443	50 3837
7939	9.2	44 23.13	2.5192	0.0212	51 55 49.2	18.973	0.111	74.9	350 352	51 3481
7940	9.3	44 26.16	2.4936	0.0217	53 12 3.2	18.974	0.110	75.9	446 447 449	53 2998
7941	8.6	22 44 32.81	+2.4769	+0.0220	+ 54 1 3.5	+18.977	+0.109	80.4	500 501 740 741	53 2999
7942	8.1	44 36.01	2.4911	0.0218	53 22 42.5	18.979	0.109	77.8	502 503 693 694	53 3000
7943	7.2	44 36.74	2.4737	0.0221	54 11 10.6	18.979	0.108	71.8	126 128	54 2867
7944	5.9	44 37.04	2.4499	0.0224	55 14 25.2	18.979	0.107	80.8	587 592 736 737	55 2820
7945	8.5	44 44.73	2.5396	0.0210	51 0 46.9	18.983	0.111	73.9	258 259 260	50 3841
7946	6.8	22 44 48.62	+2.5586	+0.0206	+ 50 0 56.6	+18.985	+0.112	77.8	584 585	49 3954
7947	9.1	44 53.81	2.5480	0.0209	50 37 6.1	18.987	0 111	73.8	256 257	50 3844
7948	8.0	44 56.16	2.4959	0.0219	53 16 4.5	18.988	0.109	80.2	6 obs. [8]	53 3001
7949	8.6	45 19.78	2.5540	0.0209	50 27 17.2	18.999	0.111	73.9	261 264	50 3846
7950	7.2	45 25.77	2.5370	0.0213	51 23 38.2	19.002	0.110	83.9	740 741 753	51 3485

[1] 51.74 51.60 51.40 51.87 [2] Z. 256 257 747 748 749 750 [3] 49.8 45.5
[4] Z. 133 136 747 748 749 750 [5] Dupl. maj. [6] Z. 447 dupl. 8m.8 & 9m.4 med. 16.02 39.4 (Ep. 75.9)
[7] Z. 502 503α 561 562 736 737 [8] Z. 442 443 594 747 749 750

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
7951	8.8	22h 45m 27s.58	+2s.5030	+0s.0219	+ 53° 6′ 52″.5	+19″.003	+0″.108	75.9	446 447 449	53°3006
7952	7.6	45 34.20	2.5464	0.0212	50 57 4.0	19.006	0.110	71.9	138 139	50 3847
7953	8.6	45 39.00	2.5192	0.0217	52 22 53.4	19.008	0.109	77.1 77.3	5 obs. [1]	52 3308
7954	7.6	45 45.76	2.5352	0.0214	51 36 24.0	19.011	0.110	72.8	134 136 256 257	51 3486
7955	8.4	45 47.86	2.4978	0.0222	53 29 0.4	19.012	0.108	75.9	442 443	53 3008
7956	8.3	22 45 55.60	+2.5034	+0.0221	+ 53 15 26.3	+19 016	+0.108	76.8	500 501	53 3009
7957	9.0	46 3.32	2.4962	0.0223	53 38 55.0	19.019	0.107	80.6	502 592 738 739	53 3010
7958	8.7	46 27.32	2.5102	0.0222	53 7 4.4	19 030	0.107	75.9	446 447 449	53 3011
7959	7.2	46 27.76	2.5254	0.0219	52 21 56.8	19.031	0.108	74.2	259 260 352	52 3311
7960	7.9	46 30.36	2.5225	0.0220	52 31 38.0	19.032	0.108	80.9	6 obs. [2]	52 3312
7961	9.2	22 46 37.54	+2.5257	+0.0220	+ 52 24 27.8	+19.035	+0.108	83.9	749 750	} 52 3314
7962	9.3	46 39.40	2.5260	0.0220	52 24 24.4	19.036	0.108	83.9	749 750	
7963	8.4	46 42.49	2.5135	0.0222	53 2 48.6	19.038	0.107	75.9	442 443	52 3315
7964	9.0	46 43.34	2.5608	0.0213	50 35 32.0	19.038	0.109	73.8	256 257	50 3854
7965	9.0	46 50.44	2.4994	0.0225	53 46 55.0	19.041	0.106	76.8	500 501	53 3013
7966	9.0	22 46 52.02	+2.5538	+0.0215	+ 51 1 32.1	+19.042	+0.109	73.9	261 264	50 3856
7967	9.8	46 52.32	2.5476	0.0216	51 21 42.6	19.042	0.108	71.9	134 136	51 3493
7968	9.0	46 52.74	2.4769	0.0230	54 50 22.0	19.042	0.105	71.8	126 128	54 2873
7969	8.7	47 11.43	2.4754	0.0231	55 1 6.3	19.051	0.105	77.6	502 588 589 591	54 2874
7970	7.8	47 15.03	2.5742	0.0212	50 2 27.4	19.052	0.109	83.8	736 737	49 3959
7971	8.8	22 47 15.72	+2.4823	+0.0230	+ 54 43 54.8	+19.053	+0.105	80.9	594 595 751 752	54 2875
7972	9.4	47 25.78	2.5765	0.0212	49 58 48.4	19.057	0.109	84.8	739 902	49 3961
7973	9.0	47 30.99	2.4794	0.0232	54 57 20.5	19.060	0.104	78.5	587 701 702	54 2877
7974	9.1	47 45.60	2.5391	0.0222	52 8 18.4	19.066	0.107	85.9	900 904	52 3319
7975	8.7	48 0.86	2.5423	0.0222	52 4 0.2	19.073	0.106	78.9 71.9	134 136 897α 903α	51 3497
7976	9.2	22 48 6.03	+2.5189	+0.0227	+ 53 17 29.4	+19.075	+0.105	75.9	442 443	53 3017
7977	9.5	48 10.34	2.5185	0.0227	53 20 11.3	19.077	0.105	76.8	500 501	53 3018
7978	8.2	48 10.55	2.5657	0.0217	50 52 0.6	19.077	0.107	73.2	138 256 257	50 3861
7979	9.0	48 12.20	2.5454	0.0222	51 58 27.1	19.078	0.106	78.9	6 obs. [3]	51 3498
7980	8.6	48 13.04	2.4848	0.0234	54 57 32.6	19.079	0.103	71.8	126 128	54 2878
7981	8.4	22 48 14.98	+2.5446	+0.0222	+ 52 2 0.7	+19.080	+0.106	82.8	5 obs. [4]	51 3499
7982	8.9	48 25.71	2.5336	0.0225	52 40 16.5	19.084	0.105	75.9	446 447 449	52 3321
7983	9.6	48 37.14	2.5799	0.0215	50 14 3.2	19.089	0.107	73.9	261 264	50 3863
7984	8.4	49 3.61	2.4962	0.0235	54 44 33.9	19.101	0.103	73.8	5 obs. [5]	54 2879
7985	9.5	49 5.95	2.5860	0.0216	50 3 57.9	19.102	0.107	77.8	587 589 591	49 3978
7986	8.7	22 49 23.75	+2.5840	+0.0218	+ 50 17 54.1	+19.110	+0.106	79.8	5 obs. [6]	50 3868
7987	8.7	49 32.30	2.5844	0.0218	50 19 42.4	19.114	0.106	73.9	5 obs. [7]	50 3871
7988	8.8	49 35.81	2.5755	0.0220	50 51 35.6	19.115	0.105	75.9	442 443	50 3872
7989	9.6	49 53.12	2.5712	0.0223	51 12 45.0	19.123	0.105	71.9	134 136	51 3502
7990	9.0	50 3.70	2.5775	0.0222	50 55 41.3	19.128	0.105	71.9	138 139	50 3875
7991	7.8	22 50 5.69	+2.5591	+0.0226	+ 51 57 24.5	+19.128	+0.104	75.7	352 446 447 449	51 3503
7992	8.9	50 16.98	2.5956	0 0218	49 57 50.0	19.134	0.105	84.9	740 741 897 900	49 3985
7993	9.2	50 18.59	2.5957	0.0218	49 58 5.1	19.134	0.105	83.9	740 741α	[49 3986]
7994	8.2	50 35.60	2.5317	0.0235	53 35 8.3	19.142	0.102	76.8	500 501	53 3032
7995	9.0	50 39.85[8]	2.5972	0.0219	50 0 58.8	19.144	0.105	83.9	737 749 750δ	49 3989
7996	9.0	22 50 40.93	+2.5664	+0.0227	+ 51 47 22.1	+19.144	+0.103	73.9	5 obs. [9]	51 3504
7997	...	50 45.36	2.5971	0.0219	50 3 35.0	19.146	0.104	83.9	740 741	49 3990
7998	9.0	50 48.89	2.5338	0.0235	53 33 44 7	19.147	0.102	77.8	587 592	53 3033
7999	9.1	51 13.14	2.5767	0.0227	51 25 35.0	19.158	0.103	71.9	134 136	51 3506
8000	9.1	51 20.58	2.5714	0.0229	51 46 4.1	19.161	0.101	75.6	352 442 443	51 3507

[1] Z. 352 587 594δ 597 598 [2] Z. 587 594 595 737 740 741 [3] Z. 258 259 260 738 751 752
[4] Z. 352 737 739 897 903 [5] Z. 126 128 130 500 501 [6] Z. 256 257 737 740 741
[7] Z. 258 259 260 261 264 [8] 39s.86 39s.84 [39s.35] [9] Z. 258 259 260 261 264

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8001	9.4	22h 51m 23.64	+2.5875	+0.0225	+ 50° 52′ 27.0	+19.162	+0.103	74.8	256 257 446 447	50° 3883
8002	9.0	51 34.03	2.5201	0.0242	54 32 11.7	19.167	0.100	71.8	126 128	54 2883
8003	8.9	51 41.32	2.5645	0.0232	52 17 10.8	19.170	0.100	77.8	588 589 591	52 3331
8004	8.9	51 47.73	2.5572	0.0234	52 43 23.1	19.173	0.101	77.9	597 598	52 3333
8005	8.8	51 48.64	2.5121	0.0244	55 1 8.0	19.173	0.099	79.1	5 obs. [1]	54 2884
8006	8.7	22 51 50.77	+2.6044	+0.0222	+ 50 3 33.4	+19.174	+0.103	83.9	737 740 741	49 3995
8007	8.6	52 4.41	2.5901	0.0227	50 59 47.2	19.180	0.102	72.9	138 139 261 264	50 3886
8008	8.7	52 7.60	2.5470	0.0238	53 23 27.9	19.181	0.100	76.8	500 501	53 3038
8009	8.5	52 16.68	2.5949	0.0226	50 47 47.9	19.185	0.102	73.8	256 257	50 3891
8010	9.7	52 20.78	2.5776	0.0231	51 49 9.1	19.187	0.100	75.9	446 449	51 3511
8011	8.8	22 52 26.13	+2.5140	+0.0247	+ 55 10 10.3	+19.189	+0.098	77.8	587 588 589 591	55 2859
8012	8.8	52 27.28	2.5745	0.0233	52 2 20.9	19.190	0.100	76.9	442 443 594 595	51 3512
8013	8.7	52 34.27	2.5390	0.0241	53 58 59.6	19.192	0.099	77.4	502 503 583 592	53 3039
8014	8.4	52 50.86	2.5336	0.0244	54 21 48.4	19.200	0.098	71.8	126 128	54 2886
8015	7.5	53 7.12	2.6134	0.0224	50 1 47.2	19.206	0.101	83.8	738 739	49 4003
8016	8.1	22 53 8.59	+2.5984	+0.0229	+ 50 56 20.2	+19.207	+0.101	73.9	258 259 260	50 3894
8017	9.2	53 14.04	2.6139	0.0225	50 2 38.6	19.209	0.101	83.9	740 741	49 4006
8018	8.4	53 18.74	2.6094	0.0226	50 20 58.2	19.211	0.101	76.0	6 obs. [2]	50 3895
8019	9.0	53 20.01	2.5645	0.0239	52 56 30.2	19.212	0.099	75.9	442 443	52 3336
8020	8.2	53 31.44	2.6042	0.0229	50 45 3.4	19.216	0.100	73.9	261 264	50 3897
8021	8.9	22 53 32.26	+2.6063	+0.0228	+ 50 37 58.6	+19.217	+0.100	78.0	6 obs. [3]	50 3898
8022	8.7	53 45.44	2.5506	0.0245	53 51 8.9	19.222	0.098	75.8	130 132 739	53 3042
8023	6.4	53 45.84	2.5848	0.0236	51 59 3.0	19.222	0.098	71.9	134 136	51 3514
8024	7.4	53 47.08	2.5911	0.0234	51 38 1.8	19.223	0.100	74.9	350 352	51 3515
8025	8.6	53 55.79	2.5670	0.0241	53 2 34.2	19.227	0.098	77.9	5 obs. [4]	52 3339
8026	9.3	22 53 58.12	+2.5266	+0.0251	+ 55 9 21.4	+19.228	+0.096	77.8	582 583	55 2865
*8027	8.9	53 59.22	2.5788	0.0238	52 24 59.0	19.228	0.097	79.9	500 501 904	52 3340
8028	9.1	53 59.37	2.5797	0.0238	52 22 1.4	19.228	0.097	85.9	900 909	[52 3341]
8029	9.9	54 4.00	2.6103	0.0230	50 36 35.2	19.230	0.100	82.2	702 741 753	50 3899
8030	7.4	54 6.72	2.6067	0.0231	50 50 45.4	19.231	0.100	83.9	747 756 757	50 3900
8031	8.4	22 54 9.77	+2.5918	+0.0236	+ 51 44 45.2	+19.232	+0.098	81.9	595 751 752	51 3517
8032	8.4	54 15.44	2.5698	0.0242	53 1 27.1	19.235	0.098	81.9	443 757 897	52 3342
8033	8.7	54 34.36	2.5952	0.0236	51 43 12.5	19 243	0.098	75.9	6 obs. [5]	51 3519
8034	8.9	54 44.46	2.5394	0.0252	54 49 27.1	19.247	0.096	74.4	126 128 502 503	54 2892
8035	9.0	54 53.14	2.5349	0.0254	55 6 22.8	19.250	0.095	77.8	582 583	55 2868
8036	8.9	22 55 4.90	+2.5903	+0.0240	+ 52 12 48.2	+19.255	+0.097	75.9	442 443	52 3346
8037	7.9	55 14.18	2.6225	0.0231	50 20 39.3	19.259	0.098	73.8	256 257 261 264	50 3904
8038	8.8	55 14.29	2.6084	0.0235	51 12 38.8	19.259	0.098	73.9	258 259 260	51 3520
8039	8.6	55 20.25	2.5496	0.0252	54 32 24.0	19.261	0.095	71.8	130 132	54 2895
8040	9.2	55 26.91	2.5730	0.0246	53 20 11.4	19.264	0.096	76.8	500 501	53 3051
8041	7.7	22 55 27.93	+2.5674	+0.0248	+ 53 38 53.7	+19.264	+0.096	77.4	502 503 587 592	53 3052
8042	8.9	55 44.68	2.5841	0.0245	52 50 27.8	19.271	0.096	73.9	261 264	52 3349
8043	8.6	55 45.90	2.5574	0.0252	54 18 29.6	19.272	0.095	71.8	126 128	54 2897
8044	9.5	55 55.56	2.6251	0.0233	50 28 31.6	19.276	0.097	73.8	256 257	[50 3908]
8045	9.0	56 10.50	2.6054	0.0240	51 47 5.7	19.282	0.096	82.3 84.8	5 obs. [6]	51 3525
8046	8.3	22 56 10.82	+2.5668	+0.0252	+ 53 58 52.8	+19.282	+0.094	83.9	592 897 902 909	53 3055
8047	8.9	56 17.26	2.5452	0.0258	55 9 31.1	19.284	0.094	77.8	582 583	55 2876
8048	9.7	56 17.58	2.6283	0.0234	50 25 51.2	19.284	0.097	83.9	747 749 750	50 3912
8049	7.6	56 18.40	2.6323	0.0232	50 10 43.0	19.285	0.097	71.9	138 139	50 3911
8050	9.7	56 19.95	2.5898	0.0246	52 45 53.2	19.285	0.095	79.4	350 352 740 741	52 3353

[1] Z. 130 132 747 749 750 [2] Z. 139 256 257 710 712 713 [3] Z. 589 591 595 597 598 701
[4] Z. 443 446 447 449 903 [5] Z. 134 136 350 352 594 752 [6] Z. 136α 738 739 900 904

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8051	7.6	22h 56m 20s.10	+2s.6001	+0s.0243	+ 52° 10′ 14″.0	+19″.285	+0″.096	75.9	442 443	52° 3354
8052	8.8	56 23.70	2.6249	0.0235	50 41 13.8	19.287	0.097	73.9	258 259 260	50 3914
8053	9.0	56 24.16	2.5665	0.0253	54 5 11.6	19.287	0.094	76.8	500 501	53 3056
8054	8.8	56 25.82	2.5784	0.0250	53 26 59.5	19.288	0.095	77.8	586 587	[53 3057]
8055	8.5	56 42.02	2.5809	0.0250	53 25 25.6	19.294	0.094	77.8	586 587	53 3058
8056	8.8	22 56 43.56	+2.5662	+0.0255	+ 54 14 32.7	+19.295	+0.094	71.8	126 128	54 2899
8057	8.9	56 45.99	2.6229	0.0238	50 58 22.1	19.296	0.096	77.6 75.6	261 264 715 747α	50 3916
8058	8.6	56 46.97	2.6240	0.0238	50 54 53.9	19.296	0.096	78.9	712 715 717	50 3917
8059	7.5	56 54.70	2.5876	0.0249	53 8 12.5	19.299	0.094	82.2	710 738 739	53 3059
8060	8.8	57 9.02	2.5828	0.0252	53 30 26.8	19.305	0.094	83.2	592 902 903	53 3061
8061	8.0	22 57 18.93	+2.6004	+0.0248	+ 52 34 26.4	+19.309	+0.094	75.9	350 352 589	52 3357
8062	8.4	57 19.26	2.5789	0.0254	53 47 46.2	19.309	0.093	75.9	442 443	53 3062
8063	7.5	57 20.98	2.5650	0.0258	54 33 50.8	19.310	0.093	71.8	130 132	54 2900
8064	8.3	57 23.82	2.5540	0.0261	55 9 46.4	19.311	0.092	77.8	582 583	55 2879
8065	9.2	57 26.12	2.6187	0.0242	51 31 33.2	19.312	0.095	71.9	134 136	51 3527
8066	8.6	22 57 30.49	+2.6259	+0.0240	+ 51 6 31.9	+19.313	+0.095	73.8	256 257 264	50 3922
8067	8.9	57 30.71	2.6338	0.0238	50 36 27.5	19.313	0.095	73.9	258 259 260	50 3923
8068	8.6	57 32.96	2.5612	0.0260	54 50 55.4	19.314	0.092	71.8	126 128	54 2901
8069	8.9	57 54.47	2.6282	0.0241	51 8 19.7	19.323	0.094	80.6	261 740 741	51 3530
8070	8.2	57 59.67	2.6044	0.0250	52 37 46.2	19.325	0.093	77.9	591 594 595	52 3360
8071	9.0	22 58 18.54	+2.6022	+0.0252	+ 52 53 33.2	+19.332	+0.093	83.8	738 739	52 3362
8072	8.7	58 31.64	2.5930	0.0256	53 31 30.0	19.337	0.092	75.9	442 443	53 3066
8073	8.8	58 39.30	2.5748	0.0262	54 35 33.4	19.340	0.091	71.8	126 128	54 2905
8074	8.6	58 47.34	2.6295	0.0245	51 26 52.5	19.343	0.093	79.1	5 obs. [1]	51 3534
8075	9.4	58 47.99	2.6390	0.0242	50 50 35.3	19.344	0.093	71.9	138 139	50 3931
8076	8.9	22 58 52.28	+2.5796	+0.0262	+ 54 25 31.4	+19.345	+0.091	71.8	130 132	54 2906
8077	8.6	59 5.11	2.6181	0.0250	52 17 7.0	19.350	0.092	80.1	353 589 756 757	52 3365
8078	8.8	59 5.95	2.6268	0.0248	51 45 12.8	19.350	0.092	73.8	256 257	51 3536
8079	8.7	59 7.62	2.6006	0.0257	53 20 57.6	19.351	0.091	74.9	349 350 352	53 3067
8080	8.5	59 9.60	2.6174	0.0251	52 21 50.3	19.352	0.092	75.9	442 443	52 3366
8081	8.8	22 59 16.44	+2.6394	+0.0244	+ 51 2 2.3	+19.354	+0.093	73.9	258 260 261 264	50 3933
8082	7.9	59 19.40	2.5723	0.0266	55 1 8.2	19.356	0.090	77.8	586 587	54 2909
8083	9.0	59 57.26	2.5824	0.0267	54 44 33.0	19.370	0.089	71.8	126 128 130 132	54 2911
8084	8.6	23 0 2.60	2.6207	0.0254	52 33 22.0	19.372	0.091	75.9	442 443	52 3368
8085	9.0	0 20.65	2.6099	0.0260	53 20 28.0	19.379	0.090	74.9	349 350 352	53 3071
8086	9.5	23 0 34.78	+2.6564	+0.0244	+ 50 30 13.2	+19.384	+0.091	71.9	138 139	50 3940
8087	8.8	0 34.88	2.6475	0.0248	51 5 59.0	19.384	0.091	73.8	256 257	50 3942
8088	8.5	0 48.44	2.6433	0.0250	51 28 43.3	19.389	0.090	71.9	133 134 136	51 3539
8089	7.5	0 57.76	2.6605	0.0244	50 24 7.3	19.392	0.090	73.8	258 260	50 3946
8090	9.6	1 0.07	2.6675	0.0242	49 56 20.1	19.393	0.091	83.8	738 739	[49 4041]
8091	8.6	23 1 0.36	+2.6555	+0.0247	+ 50 45 37.0	+19.394	+0.090	73.9	261 264	50 3947
8092	9.0	1 3.46	2.6672	0.0242	49 58 49.0	19.395	0.090	83.8	738 739	49 4043
8093	9.0	1 31.06	2.6065	0.0267	54 4 17.1	19.405	0.088	74.9	349 350 352	53 3076
8094	5.8	1 38.17	2.6390	0.0256	52 8 26.2	19.407	0.089	74.5	5 obs. [2]	52 3371
8095	8.6	1 49.20	2.6585	0.0250	50 56 30.2	19.411	0.089	72.8	1 256 257	50 3951
8096	8.8	23 1 56.88	+2.6081	+0.0269	+ 54 10 32.8	+19.414	+0.087	71.8	126 128	54 2915
8097	9.5	1 58.04	2.6450	0.0256	51 54 27.7	19.415	0.088	72.7	5 obs. [3]	51 3540
8098	9.4	2 26.85	2.6092	0.0272	54 20 34.7	19.425	0.086	71.8	130 132	54 2918
8099	8.9	2 28.17	2.6210	0.0267	53 39 3.1	19.426	0.086	74.9	349 350 352	53 3078
8100	8.4	2 41.53	2.6706	0.0249	50 31 12.4	19.430	0.088	73.3	5 obs. [4]	50 3955

[1] Z. 133 134 747 751 752 [2] Z. 195 196 353 442 443 [3] Z. 133 134 136 258 260

[4] Z. 138 139 261 264 353

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8101	9.2	23h 3m19.96	+2.6770	+0.0250	+ 50°22′53.″6	+19.″444	+0.″087	71.9	1 5 195 196	50°3958
8102	9.6	3 22.22	2.6726	0.0252	50 42 33.4	19.445	0.087	73.8	258 260	50 3959
8103	9.1	3 32.89	2.6798	0.0250	50 16 57.1	19.449	0.087	74.9	349 350 352	50 3961
8104	9.0	3 34.88	2.6718	0.0253	50 52 1.6	19.450	0.087	75.9	442 443	50 3962
8105	8.8	3 49.49	2.6708	0.0255	51 3 16.8	19.455	0.086	73.9	261 264	50 3964
8106	9.0	23 3 50.72	+2.6286	+0.0272	+ 53 49 53.8	+19.455	+0.084	71.8	126 128	53 3083
8107	8.9	3 54.47	2.6813	0.0251	50 21 8.4	19.457	0.086	77.8	585 586 587	50 3967
8108	9.0	3 54.74	2.6802	0.0251	50 26 9.9	19.457	0.086	80.8	353 738 739	50 3966
8109	8.8	3 55.97	2.6306	0.0272	53 44 51.3	19.457	0.084	73.8	130 132 594	53 3084
8110	8.5	3 57.22	2.6280	0.0273	53 55 25.4	19.458	0.084	77.2	502 503 595	53 3085
8111	8.9	23 4 6.69	+2.6673	+0.0258	+ 51 26 28.9	+19.461	+0.086	71.9	133 134 136	51 3547
8112	9.0	4 28.19	2.6719	0.0258	51 17 40.1	19.468	0.085	74.1	5 obs. [1]	51 3550
8113	8.9	4 51.94	2.6496	0.0270	52 59 42.0	19.477	0.084	73.8	258 260	52 3379
8114	8.6	5 10.39	2.6838	0.0257	50 48 10.6	19.483	0.084	71.4	5 7 138 139	50 3973
8115	8.9	5 19.61	2.6786	0.0260	51 15 2.8	19.486	0.084	73.4	6 obs. [2]	51 3553
8116	8.8	23 5 22.89	+2.6566	+0.0270	+ 52 47 16.9	+19.487	+0.083	80.8	353 738 739	52 3381
8117	9.3	5 30.75	2.6650	0.0267	52 17 20.1	19.490	0.083	77.2	442 589 593	52 3382
8118	7.5	5 31.89	2.6638	0.0268	52 22 48.1	19.490	0.083	77.4	502 503 594 595	52 3383
8119	8.2	5 34.17	2.6852	0.0258	50 53 45.0	19.491	0.084	72.9	2 261 264	50 3975
8120	9.3	5 42.70	2.6660	0.0268	52 19 16.7	19.494	0.083	83.4 82.6	592 751 904 905α	[52 3384]
8121	7.0	23 5 43.86	+2.6972	+0.0254	+ 50 5 33.6	+19.495	+0.084	83.9	740 741	49 4065
8122	9.3	5 47.30	2.6671	0.0268	52 17 13.6	19.496	0.083	82.6 80.9	593 751 905α	52 3385
8123	8.9	6 13.28	2.6787	0.0265	51 41 37.0	19.505	0.082	71.9	133 134 136	51 3555
8124	9.0	6 14.67	2.6277	0.0287	55 2 45.8	19.505	0.081	71.8	130 132	54 2928
8125	9.1	6 14.90	2.6347	0.0284	54 37 10.2	19.505	0.081	71.8	126 128	54 2927
8126	9.1	23 6 19.09	+2.6887	+0.0261	+ 51 1 35.5	+19.507	+0.083	72.9	1 258 260	50 3980
8127	8.5	6 26.10	2.6663	0.0272	52 39 44.1	19.509	0.082	82.1	5 obs. [3]	52 3388
8128	8.5	6 29.83	2.6690	0.0271	52 30 48.4	19.510	0.082	77.2	442 592 593	52 3389
8129	8.9	6 30.52	2.6468	0.0281	53 59 32.3	19.510	0.081	74.9	349 350 352	53 3092
8130	8.6	6 34.60	2.6871	0.0263	51 16 37.9	19.512	0.082	72.6	134 195 196 197	51 3556
8131	8.2	23 6 36.36	+2.6752	+0.0269	+ 52 8 7.3	+19.512	+0.082	75.9	447 449	52 3390
8132	8.5	6 38.30	2.6498	0.0280	53 51 48.1	19.513	0.081	78.1	5 obs. [4]	53 3093
8133	7.0	6 43.24	2.6843	0.0265	51 33 5.4	19.515	0.082	73.9	261 264	51 3558
8134	8.9	6 54.34	2.6318	0.0289	55 7 24.3	19.518	0.080	77.8	586 587	55 2916
8135	8.0	7 2.18	2.6913	0.0264	51 12 22.8	19.521	0.082	71.9	133 136	51 3559
8136	8.2	23 7 37.76	+2.6784	+0.0273	+ 52 26 27.6	+19.533	+0.080	73.9	5 obs. [5]	52 3391
8137	9.3	7 50.04	2.7016	0.0263	50 51 11.5	19.537	0.081	71.3	5 obs. [6]	50 3989
8138	8.0	8 30.87	2.6755	0.0280	53 6 28.9	19.550	0.079	73.8	130 349 352	53 3103
8139	8.8	8 34.28	2.6810	0.0278	52 45 8.0	19.551	0.078	73.9	261 264	52 3397
8140	8.8	8 49.55	2.7088	0.0266	50 50 3.3	19.556	0.079	72.4	5 7 258 260	50 3992
8141	9.1	23 8 50.67	+2.6665	+0.0287	+ 53 53 44.8	+19.557	+0.078	81.9	442 747 751 752	53 3105
8142	8.8	8 55.69	2.6542	0.0293	54 44 49.4	19.558	0.077	71.8	126 128	54 2936
8143	9.0	8 56.41	2.6858	0.0278	52 36 15.0	19.559	0.078	73.7	5 obs. [7]	52 3400
8144	8.9	8 58.57	2.7020	0.0270	51 25 56.9	19.559	0.079	71.9	134 136	51 3564
8145	8.8	9 8.82	2.6782	0.0283	53 15 8.8	19.562	0.078	76.9 77.4	447α 503 586	53 3107
8146	9.2	23 9 16.24	+2.6508	+0.0296	+ 55 8 41.5	+19.565	+0.076	77.8	582 583	55 2924
8147	8.2	9 23.45	2.6653	0.0291	54 15 36.1	19.567	0.077	75.8	130 584 585	54 2938
8148	8.4	9 30.96	2.7027	0.0273	51 40 14.5	19.570	0.078	74.9	354 355	51 3566
8149	9.3	9 32.07	2.6847	0.0282	52 59 54.8[8]	19.570	0.077	80.2 81.9	264 353α 903 906	52 3404
8150	8.7	9 34.37[9]	2.7059	0.0272	51 27 45.9	19.571	0.078	77.9 79.1	5 obs. [10]	51 3567

[1] Z. 195 196 349 350 352 [2] Z. 133 134 136 349 350 352 [3] Z. 353 738 739 740 741
[4] Z. 502 503 706 708 709 [5] Z. 195 196 261 264 442 [6] Z. 1 5 7 138 139
[7] Z. 195 196 197 351 353 [8] 53.″8 [50.″7] 54.″6 56.″0 [9] 34.″26 34.″43 [37.″56] 34.″60 34.″18
[10] Z. 133 134 747δ 751 752

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Nr.	Mag.	R.A. 1875	Prec.	Sec var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8151	8.2	23h 9m37.33	+2.6757	+0.0287	+ 53°40′40.3	+19.572	+0.077	74.9	349 350 352	53°3109
8152	8.4	9 58.47	2.7265	0.0263	50 3 21.8	19.578	0.078	83.8	738 739	49 4073
8153	9.0	10 12.71	2.6997	0.0279	52 16 47.9	19.583	0.076	73.3	5 obs. [1]	52 3405
8154	9.4	10 18.50	2.7274	0.0264	50 10 6.3	19.585	0.077	71.4	5 7 138 139	50 3997
8155	8.6	10 19.28	2.6868	0.0286	53 16 42.2	19.585	0.076	75.9	447 449	53 3114
8156	9.5	23 10 25.30	+2.7008	+0.0280	+ 52 18 27.2	+19.587	+0.076	83.9	747 751 752	52 3407
8157	8.8	10 35.22	2.6825	0.0290	53 43 23.1	19.590	0.075	75.3	5 obs. [2]	53 3115
8158	8.8	10 37.30	2.6944	0.0284	52 53 38.6	19.591	0.076	73.9	261 264	52 3408
8159	7.2	10 42.14	2.7323	0.0264	49 59 23.6	19.592	0.077	83.8	738 739	49 4078
8160	9.0	10 50.15	2.6972	0.0284	52 48 14.5	19.595	0.075	74.9	354 355	52 3409
8161	8.5	23 10 53.78	+2.6736	+0.0297	+ 54 30 30.6	+19.596	+0.074	71.8	126 128	54 2941
8162	6.0	11 0.75	2.7021	0.0283	52 32 22.6	19.598	0.075	76.5	5 obs. [3]	52 3410
8163	8.8	11 7.51	2.6862	0.0292	53 45 27.3	19.600	0.074	82.4	586 747 751 752	53 3116
8164	8.7	11 9.12	2.7312	0.0268	50 19 58.2	19.600	0.076	83.9	740 741	50 4000
8165	9.4	11 21.28	2.7057	0.0283	52 27 51.0	19.604	0.075	72.9	195 196	52 3411
8166	9.2	23 11 30.63	+2.6742	+0.0301	+ 54 48 10.2	+19.607	+0.074	77.7	6 obs. [4]	54 2943
8167	9.0	11 31.91	2.6876	0.0294	53 53 5.9	19.607	0.074	74.9	349 350 352 353	53 3117
8168	9.5	11 33.88	2.7114	0.0281	52 8 33.2	19.608	0.074	77.9	594 595	52 3413
8169	8.2	11 40.48	2.7370	0.0268	50 8 40.2	19.610	0.075	72.4	5 7 258 260	50 4001
8170	9.0	11 52.60	2.7204	0.0279	51 37 15.6	19.614	0.074	74.9	134 136 592 593	51 3577
8171	7.9	23 11 53.73	+2.6830	+0.0299	+ 54 24 25.8	+19.614	+0.073	71.8	126 128	54 2944
8172	9.3	11 58.43	2.6983	0.0291	53 21 41.8	19.616	0.073	78.5	447 449 739	53 3120
8173	9.1	11 58.91	2.7390	0.0268	50 9 28.9	19.616	0.075	73.9	261 264	50 4003
8174	9.0	12 0.78	2.6751	0.0304	55 1 12.7	19.616	0.073	77.9	601 602	54 2945
8175	8.8	12 1.36	2.6943	0.0294	53 40 47.5	19.616	0.073	79.1	503 586 597 738	53 3121
8176	8.8	23 12 6.00	+2.6783	+0.0303	+ 54 50 49.5	+19.618	+0.073	77.9	594 595	54 2946
8177	8.6	12 13.07	2.6950	0.0295	53 44 32.8	19.620	0.073	82.4	598 747 751 752	53 3122
8178	8.8	12 14.60	2.7116	0.0286	52 30 57.9	19.620	0.073	74.4 74.9	196α 354 355 356	52 3414
8179	8.9	12 28.76	2.7012	0.0293	53 25 51.4	19.625	0.073	77.1	5 obs. [5]	53 3124
8180	9.2	12 34.36	2.6776	0.0306	55 9 36.9	19.626	0.072	81.8	586 738 739	55 2936
8181	9.2	23 12 53.08	+2.7038	+0.0294	+ 53 28 29.0	+19.632	+0.072	85.2 84.8	751 897 902α	53 3127
8182	9.0	12 55.34	2.7008	0.0297	53 43 0.0	19.633	0.072	76.2	130 503 594 595	53 3128
8183	8.9	12 56.40	2.6895	0.0303	54 32 14.3	19.633	0.071	71.8	126 128	54 2948
8184	9.3	12 58.32	2.7051	0.0294	53 25 23.4	19.634	0.072	78.6	447 449 752	[53 3129]
8185	9.2	13 1.50	2.7398	0.0275	50 41 52.8	19.634	0.073	71.5	5 obs. [6]	50 4008
8186	7.2	23 13 14.92	+2.7014	+0.0298	+ 53 51 20.0	+19.638	+0.071	74.9	350 351 352 353	53 3130
8187	8.3	13 17.82	2.7190	0.0289	52 32 58.3	19.639	0.072	72.9	195 196α 197	52 3417
8188	9.0	13 55.60	2.7426	0.0279	51 0 4.4	19.650	0.071	73.5	5 obs. [7]	50 4014
8189	9.1	14 7.75	2.6921	0.0310	55 2 27.4	19.654	0.070	79.9	130 747 752	54 2952
8190	9.2	14 14.72	2.6934	0.0310	55 0 47.8	19.656	0.070	78.8	9 obs. [8]	54 2953
8191	8.0	23 14 39.64	+2.6952	+0.0313	+ 55 7 25.6	+19.663	+0.069	77.8	584 585	55 2942
8192	8.6	14 39.94	2.7289	0.0292	52 34 42.8	19.663	0.070	74.1	5 obs. [9]	52 3422
8193	9.0	14 46.40	2.7001	0.0311	54 50 22.8	19.665	0.069	81.8	586 738 739	54 2954
8194	8.9	14 48.02	2.7131	0.0303	53 53 36.9	19.665	0.069	78.8	7 obs. [10]	53 3139
8195	8.6	14 48.40	2.7006	0.0311	54 49 19.2	19.666	0.069	81.8	586 738 739	54 2954
8196	9.0	23 14 49.61	+2.7510	+0.0280	+ 50 49 3.6	+19.666	+0.070	72.0	6 obs. [11]	50 4017
8197	9.1	15 13.16	2.7414	0.0288	51 52 49.3	19.673	0.069	71.9	134 136	51 3586
8198	9.2	15 21.20	2.7029	0.0314	54 58 59.1	19.675	0.068	76.5	5 obs. [12]	54 2956
8199	8.8	15 35.40	2.7110	0.0310	54 31 34.4	19.679	0.068	77.4	508 586	54 2958
8200	8.3	15 54.81	2.7611	0.0280	50 35 56.6	19.684	0.068	71.9	6 obs. [13]	50 4023

[1] Z. 195 196 197 258 260
[2] Z. 349 350 352 353 503
[3] Z. 197 508 509 592 593
[4] Z. 130 706 711 714 715 716
[5] Z. 350 351 352 353 902
[6] Z. 5 7 134 136 138
[7] Z. 134 258 260 261 264
[8] Z. 354 355 356 503 582 583 747 751 752
[9] Z. 195 196 197 447 449
[10] Z. 350 351 352 353 753 756 757
[11] Z. 1 5 7 138 258 260
[12] Z. 130 503 583 597 598
[13] Z. 2 3 5 7 258 260

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8201	7.9	23h 15m 58s.13	+2s.7073	+0s.0316	+ 55° 1′ 26″.6	+19″.685	+0″.067	74.9	354 355 356	54° 2960
8202	8.3	15 58.36	2.7192	0.0308	54 7 51.6	19.685	0.067	77.4	502 503 594 595	54 2961
8203	9.2	16 8.42	2.7532	0.0288	51 26 48.7	19.688	0.068	75.9	446 447	51 3592
8204	9.0	16 25.54	2.7289	0.0306	53 38 57.2	19.693	0.067	74.9	350α 351 352 353	53 3147
8205	8.7	16 41.66	2.7338	0.0305	53 25 17.6	19.697	0.066	80.1	508 597 598 738 739	53 3148
8206	9.0	23 16 48.43	+2.7435	+0.0299	+ 52 41 35.4	+19.699	+0.066	72.9	195 196 197	52 3426
8207	8.3	16 57.76	2.7345	0.0306	53 32 14.7	19.702	0.066	77.4	502 503 594 595	53 3149
8208	7.4	16 58.78	2.7711	0.0281	50 21 43.7	19.702	0.067	76.1 75.2	9 obs. [1]	50 4025
8209	8.6	17 4.83	2.7380	0.0305	53 19 16.6	19.704	0.066	75.9	446 447 449	53 3150
8210	9.2	17 6.91	2.7722	0.0282	50 20 45.3	19.704	0.067	83.9	747 751 752	50 4026
8211	9.0	23 17 13.97	+2.7535	+0.0296	+ 52 6 46.7	+19.706	+0.066	74.9	354 355 356	52 3427
8212	8.9	17 31.14	2.7765	0.0281	50 11 54.8	19.711	0.066	72.4	5 7 261 264	50 4030
8213	9.2	17 31.43	2.7280	0.0315	54 24 19.2	19.711	0.065	79.4	130 586 740 741	54 2963
8214	7.6	17 31.94	2.7635	0.0291	51 25 1.4	19.711	0.066	71.9	134 136	51 3598
8215	8.6	17 39.92	2.7558	0.0297	52 11 30.7	19.713	0.065	77.8	589 591	52 3429
8216	9.2	23 17 47.05	+2.7556	+0.0298	+ 52 16 42.6	+19.715	+0.065	80.7	7 obs. [2]	52 3430
8217	8.8	17 47.70	2.7658	0.0291	51 22 33.2	19.715	0.065	77.9	592 593	51 3599
8218	7.1	17 52.78	2.7439	0.0307	53 20 43.2	19.716	0.065	74.9	350 351 352 353	53 3151
8219	8.0	17 53.18	2.7593	0.0296	52 1 27.1	19.717	0.065	74.9	354 355 356	51 3600
8220	8.8	17 57.09	2.7247	0.0321	54 56 18.9	19.718	0.064	77.2	6 obs. [3]	54 2966
8221	9.1	23 17 57.96	+2.7379	+0.0312	+ 53 53 38.6	+19.718	+0.064	80.9	447 449 902 903	53 3152
8222	9.2	18 15.22	2.7267	0.0322	54 58 20.9	19.722	0.063	80.3	130 586 747 751 752	54 2967
8223	9.0	18 24.52	2.7400	0.0314	54 0 24.1	19.725	0.064	74.9	350 352	53 3153
8224	8.6	18 31.72	2.7349	0.0319	54 29 56.0	19.727	0.063	77.8	589 591	54 2968
8225	9.2	18 43.04	2.7577	0.0304	52 42 47.4	19.730	0.064	72.9	134 136 258 260	52 3433
8226	7.9	23 18 53.19	+2.7588	+0.0305	+ 52 43 32.2	+19.732	+0.063	74.1	195 196 197 447 449	52 3435
8227	9.2	19 7.52	2.7480	0.0315	53 48 59.1	19.736	0.063	77.1 74.9	351 354 355 356 897α	53 3154
8228	8.0	19 10.65	2.7414	0.0320	54 23 58.4	19.737	0.062	77.2	6 obs. [4]	54 2969
8229	9.0	19 12.11	2.7870	0.0286	50 18 39.8	19.737	0.064	72.1	6 obs. [5]	50 4034
8230	8.9	19 22.14	2.7836	0.0290	50 45 15.7	19.740	0.063	73.6	3 350 352	50 4036
8231	7.2	23 19 44.27	+2.7418	+0.0324	+ 54 44 19.2	+19.746	+0.061	73.4	130 132 351 353	54 2970
8232	7.0	19 47.49	2.7704	0.0304	52 17 35.8	19.746	0.062	81.5	354 356 900 904 908	52 3440
8233	9.4	19 50.28	2.7741	0.0301	51 58 49.6	19.747	0.062	73.8	258 260	51 3606
8234	7.6	19 56.38	2.7673	0.0307	52 40 29.8	19.749	0.062	75.9	447 449	52 3442
8235	8.9	19 57.97	2.7652	0.0309	52 53 7.0	19.749	0.062	72.9	195 196 197	52 3441
8236	8.0	23 20 11.19	+2.7712	+0.0306	+ 52 29 28.1	+19.752	+0.061	75.2	261 264 586	52 3444
8237	8.8	20 14.48	2.7497	0.0323	54 25 11.7	19.753	0.061	77.5	508 582 583	54 2972
8238	7.0	20 31.55	2.7738	0.0307	52 28 48.5	19.758	0.061	78.6	261 264 586 738 739	52 3446
8239	9.3	20 40.57	2.7781	0.0305	52 11 10.0	19.760	0.061	74.9	354 355 356	52 3447
8240	8.8	20 46.06	2.7727	0.0310	52 45 20.4	19.761	0.060	73.9	6 obs. [6]	52 3448
8241	8.6	23 20 49.49	+2.7559	+0.0324	+ 54 17 12.6	+19.762	+0.060	71.8	130 132	[54 2974]
8242	9.3	20 52.92[7]	2.8012	0.0288	50 2 16.2	19.763	0.061	84.6	740 741 902	[49 4120]
8243	9.2	21 0.77	2.8021	0.0288	50 2 32.5	19.765	0.061	77.7 70.9	6 obs. [8]	49 4122
8244	8.7	21 0.80	2.7622	0.0320	53 52 21.2	19.765	0.060	74.9	350 351 352 353	53 3158
8245	9.0	21 4.14	2.7688	0.0316	53 19 4.2	19.766	0.060	77.8	589 591	53 3159
8246	8.6	22 21 4.50	+2.7579	+0.0324	+ 54 17 12.4	+19.766	+0.059	71.8	130 132	54 2975
8247	9.3	21 7.39	2.7502	0.0331	54 58 31.8	19.766	0.059	78.4	598 716	— —
8248	9.4	21 13.22	2.7485	0.0333	55 11 6.1	19.768	0.059	82.4 81.2	706 707 905α 906	55 2959
8249	8.7	21 20.91	2.7621	0.0324	54 6 50.6	19.770	0.059	77.5	502 503 584 592 593	54 2977
8250	7.6	21 21.12	2.7614	0.0324	54 10 40.2	19.770	0.059	79.9	508 509 585 747 753	54 2976

[1] Z. 1 2 138 139 258 260 753 756 757α
[2] Z. 196 197 738 739 753 756 757
[3] Z. 502 503 508 509 594 595
[4] Z. 502 503 508 509 582 583
[5] Z. 1 2 7 138 261 264
[6] Z. 134 136 258 260 447 449
[7] 52s.73 52s.86 53s.18
[8] Z. 1 2 7 740α 741α 902α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8251	8.9	23h 21m 28.90	+2.7732	+0.0316	+ 53°12′22.8	+19.772	+0.059	74.9	351 353	53°3160
8252	9.1	21 28.92	2.7545	0.0331	54 51 41.6	19.772	0.058	82.3 81.7	7 obs. [1]	54 2978
8253	9.8	21 35.28	2.8069	0.0289	49 57 17.4	19.773	0.060	83.8	738 739α 742	49 4126
8254	9.5	21 38.73	2.7833	0.0309	52 22 33.7	19.774	0.059	73.5	7 obs. [2]	52 3450
8255	8.7	21 40.70	2.7601	0.0328	54 30 45.6	19.774	0.058	77.9	594 595	54 2979
8256	9.4	23 21 47.38	+2.7564	+0.0332	+ 54 54 39.6[8]	+19.776	+0.058	82.9 81.4	703 757 903α	54 2980
8257	9.2	21 52.14	2.7581	0.0332	54 49 26.2	19.777	0.058	85.2 84.9	753 897α 904	54 2981
8258	8.4	22 1.26	2.7575	0.0334	54 58 41.1	19.780	0.058	74.2	130 132 712	54 2982
8259	7.6	22 19.14	2.8051	0.0296	50 40 32.2	19.784	0.058	71.9	138 139	50 4048
8260	9.3	22 27.08	2.7691	0.0328	54 16 20.3	19.786	0.057	77.9	597 598	— —
8261	9.0	23 22 29.85	+2.7652	+0.0332	+ 54 39 11.6	+19.786	+0.057	78.4	6 obs. [4]	54 2984
8262	9.1	22 35.71	2.7668	0.0332	54 34 59.9	19.788	0.057	80.6	592 593 909	54 2985
8263	8.9	22 39.89	2.8103	0.0295	50 22 49.5	19.789	0.058	72.1	5 obs. [5]	50 4051
8264	8.9	22 43.05	2.7717	0.0329	54 13 54.0	19.790	0.057	83.9	742 751 752	54 2988
8265	8.8	22 44.47	2.7664	0.0333	54 42 55.6	19.790	0.057	79.9	594 595 738	54 2987
8266	9.0	23 22 48.55	+2.8121	+0.0294	+ 50 17 57.0	+19.791	+0.058	74.4	261 264 351 353	50 4053
8267	8.7	22 58.79	2.7931	0.0313	52 23 53.7	19.793	0.057	74.9	354 355 356	52 3453
8268	6.5	23 0.34	2.7873	0.0318	52 58 40.9	19.794	0.057	72.9	195 197	52 3454
8269	9.0	23 3.54[6]	2.7997	0.0307	51 47 8.8[7]	19.794	0.057	85.2 84.9	740δ 741 904 914	51 3621
8270	9.2	23 4.04	2.8019	0.0306	51 34 10.6	19.794	0.057	77.8	589 591	51 3622
8271	9.1	23 23 14.86	+2.7668	+0.0338	+ 55 2 50.8	+19.797	+0.056	71.8	130 132	54 2989
8272	8.4	23 17.06	2.7922	0.0316	52 42 51.4	19.797	0.056	78.8	697 699 700	52 3455
8273	7.9	23 22.86	2.7746	0.0332	54 26 52.4	19.799	0.056	77.2	6 obs. [8]	54 2991
8274	9.8	23 26.03[9]	2.8143	0.0298	50 31 49.1[10]	19.800	0.057	84.6 84.9	742α 753 908δ	50 4054
8275	8.7	23 32.15	2.7967	0.0315	52 27 12.8	19.801	0.056	77.9	592 593	52 3456
8276	8.7	23 23 32.98	+2.8014	+0.0310	+ 51 59 15.8	+19.801	+0.056	81.5	5 obs. [11]	51 3623
8277	8.5	23 35.46	2.8001	0.0312	52 8 57.4	19.802	0.056	74.9	354 355 356	52 3457
8278	8.2	23 37.75	2.8114	0.0302	50 59 47.7	19.802	0.056	72.9 73.8	3α 258 260	50 4056
8279	8.8	23 42.61	2.8034	0.0310	51 53 40.0	19.803	0.056	74.9	351 353	51 3625
8280	8.3	23 58.61	2.8220	0.0295	50 5 19.3	19.807	0.056	76.1	5 obs. [12]	49 4137
8281	8.4	23 24 10.22	+2.7796	+0.0336	+ 54 34 40.4	+19.810	+0.054	71.8	130 132	54 2992
8282	9.7	24 22.09	2.8048	0.0315	52 15 14.9	19.812	0.055	74.9	354 355 356	52 3458
8283	9.6	24 27.25	2.8082	0.0312	51 58 7.6	19.814	0.055	81.8	586 738 739	51 3628
8284	9.3	24 37.46	2.8248	0.0298	50 17 20.1	19.816	0.055	71.9	138 139	50 4061
8285	9.0	24 39.23[13]	2.7817	0.0339	54 44 31.2	19.816	0.054	77.8	584 585 594δ 597	54 2994
8286	8.8	23 24 40.35	+2.7941	+0.0328	+ 53 34 9.4	+19.816	+0.054	78.2	592 593 707	53 3172
8287	9.2	24 41.13	2.8247	0.0299	50 20 54.2	19.817	0.055	80.6	260 747 752	50 4062
8288	9.0	24 52.72	2.8253	0.0300	50 25 34.9	19.819	0.054	73.9	261 264	50 4063
8289	8.9	24 53.82	2.7852	0.0338	54 36 23.7	19.820	0.053	77.6	508 601 602	54 2995
8290	9.6	24 55.04	2.8184	0.0307	51 14 7.5	19.820	0.054	77.8	589 591	51 3629
8291	9.0	23 25 7.33	+2.8015	+0.0326	+ 53 11 7.6	+19.822	+0.053	74.9	351 353	53 3173
8292	8.6	25 14.70	2.7833	0.0344	55 2 47.7[14]	19.824	0.053	79.9 80.2	597 710 714α 753	54 2996
8293	8.6	25 17.06	2.7835	0.0344	55 3 29.8	19.825	0.053	78.9 79.0	8 obs. [15]	54 2998
8294	8.2	25 17.15	2.7985	0.0330	53 36 38.7	19.825	0.053	82.2	706 751 752	53 3175
8295	9.0	25 22.78	2.8107	0.0319	52 25 50.8	19.826	0.053	75.9	447 449	[52 3460]
8296	8.5	23 25 23.04	+2.8317	+0.0298	+ 50 5 48.0	+19.826	+0.054	76.1	5 obs. [16]	49 4141
8297	7.2	25 23.80	2.8174	0.0313	51 43 20.4	19.826	0.053	81.9	586 740 741	51 3630
8298	8.8	25 25.12	2.8132	0.0317	52 11 31.3	19.826	0.053	74.9	354 355 356	52 3461
8299	9.4	25 26.62	2.7866	0.0343	54 53 11.9	19.827	0.052	77.9	594 595	54 3000
8300	8.8	25 40.44	2.8347	0.0298	49 58 34.8	19.830	0.053	85.8	897 902α	49 4145

[1] Z. 704 710 717 751 752 897 904α
[2] Z. 134 136 195 197 354 355 356
[4] Z. 502 503 508 584 585 739
[5] Z. 1 2 7 258 260
[6] [4.02] 3.36 3.82 3.45
[7] 11.1 8.5 6.1 9.7
[8] Z. 502 503 508 509 584 585
[9] 25.95 26.11 [25.27]
[10] 52.4 45.8
[11] Z. 594 595 747 751 752
[12] Z. 1 5 7 740 741
[13] 39.35 39.28 [39.82] 39.05
[14] 46.0 47.8 [55.6] 49.4
[15] Z. 130 132 597α 710 714 753 756 757
[16] Z. 2 5 7 738 739

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8301	9.3	23h 25m 41.16	+2.8311	+0.0302	+ 50°24′ 11.9	+19.830	+0.053	72.9	1 258 260	50°4066
8302	8.9	25 42.55	2.8128	0.0320	52 27 53.6	19.830	0.053	83.9	747 756 757	52 3464
8303	8.0	25 44.39	2.8036	0.0330	53 27 7.2	19.831	0.052	79.6 78.2	592 593 709 758α	53 3178
8304	9.2	25 48.46	2.7895	0.0344	54 53 42.0	19.832	0.052	79.8	584 585 751	54 3001
8305	9.0	25 54.80	2.8043	0.0331	53 31 10.5	19.833	0.052	80.2 78.4	606 708 753α	[53 3179]
8306	8.6	23 25 55.50	+2.8047	+0.0331	+ 53 29 21.0[1]	+19.833	+0.052	81.2	606 708 753 758	53 3180
8307	9.2	25 58.47	2.8108	0.0325	52 53 51.6	19.834	0.052	78.2	508 697 699	52 3465
8308	8.8	25 58.80	2.8154	0.0321	52 24 41.5	19.834	0.052	77.9	601 602	52 3466
8309	8.7	26 1.27	2.8209	0.0316	51 50 37.4	19.834	0.052	73.9	261 264	51 3632
8310	8.6	26 1.86	2.8071	0.0329	53 19 47.3	19.834	0.052	74.9	351 353	53 3182
8311	8.6	23 26 3.95	+2.8010	+0.0336	+ 53 58 30.8	+19.835	+0.052	78.9	706 707	53 3183
8312	8.6	26 7.06	2.7989	0.0338	54 13 54.0	19.836	0.052	71.8	130 132	54 3002
8313	8.9	26 20.48	2.8288	0.0311	51 13 7.4	19.838	0.052	82.6	5 obs. [2]	51 3635
8314	8.2	26 30.28	2.8175	0.0324	52 36 28.6	19.840	0.051	74.9	354 355 356	52 3467
8315	8.9	26 37.80	2.8113	0.0332	53 22 20.8	19.842	0.051	77.9	592 593	53 3185
8316	8.4	23 26 38.76	+2.8387	+0.0303	+ 50 18 14.7	+19.842	+0.051	71.2 71.3	6 obs. [3]	50 4072
8317	7.0	26 40.48	2.8152	0.0328	52 59 47.7	19.843	0.051	75.9	447 449	52 3469
8318	7.9	26 45.40	2.7954	0.0348	55 4 44.3	19.844	0.050	77.4	502 503 584 585	54 3003
8319	8.8	26 53.14	2.8329	0.0312	51 11 41.0	19.845	0.051	73.8	258 260	51 3638
8320	8.3	26 54.36	2.8118	0.0334	53 33 5.8	19.846	0.050	74.9	351 353	53 3189
8321	9.1	23 26 57.83	+2.8228	+0.0323	+ 52 24 24.7	+19.846	+0.051	83.5 81.8	5 obs. [4]	52 3472
8322	8.8	26 58.38	2.8165	0.0330	53 5 54.8	19.846	0.050	81.7	5 obs. [5]	52 3471
8323	8.6	27 0.92	2.8324	0.0313	51 21 10.4	19.847	0.051	77.8	589 591	51 3639
8324	9.0	27 2.57	2.8237	0.0323	52 22 28.4	19.847	0.050	79.9	508 701 751	52 3473
8325	8.9	27 10.82	2.8246	0.0324	52 22 52.1	19.849	0.050	84.1	5 obs. [6]	52 3474
8326	9.0	23 27 26.61	+2.8455	+0.0304	+ 50 8 47.6	+19.852	+0.050	72.9	1 261 264	50 4074
8327	8.6	27 31.23	2.8350	0.0316	51 28 51.2	19.853	0.050	77.9	601 602	51 3640
8328	9.0	27 33.90	2.8275	0.0325	52 23 15.2	19.854	0.050	78.9	699 701 703	52 3477
8329	8.6	27 41.36	2.8316	0.0321	52 1 2.4	19.855	0.050	77.8	589 591	51 3642
8330	8.0	27 46.73	2.8161	0.0339	53 49 15.0	19.856	0.049	77.2	6 obs. [7]	53 3190
8331	8.6	23 27 53.36	+2.8032	+0.0354	+ 55 14 18.1	+19.858	+0.048	77.9	592 593	55 2981
8332	9.2	28 1.59	2.8435	0.0312	50 53 38.2	19.859	0.049	83.9	742 747	50 4077
8333	9.4	28 2.51	2.8461	0.0309	50 35 23.1	19.860	0.049	77.3	8 obs. [8]	50 4078
8334	8.9	28 5.58	2.8440	0.0312	50 53 39.2	19.860	0.049	75.5	7 obs. [9]	50 4079
8335	8.2	28 13.36	2.8236	0.0336	53 22 40.9	19.862	0.048	74.9	351 353	53 3193
8336	8.2	23 28 15.37	+2.8106	+0.0350	+ 54 47 55.0	+19.862	+0.048	71.8	130 132	54 3006
8337	9.6	28 18.12	2.8345	0.0325	52 12 33.4	19.863	0.048	83.9	740 741	52 3480
8338	9.1	28 19.78	2.8347	0.0325	52 12 58.0	19.863	0.048	81.7 80.2	5 obs. [10]	
8339	8.0	28 22.27	2.8457	0.0313	50 55 21.8	19.864	0.048	80.6	261 751 752	50 4081
8340	8 8	28 38.96	2.8438	0.0318	51 24 6.7	19.867	0.048	77.8	589 591	51 3646
8341	8.7	23 28 41.38	+2.8499	+0.0311	+ 50 41 3.4	+19.867	+0.048	71.9	138 139	50 4084
8342	8.9	28 46.29	2.8382	0.0326	52 11 7.7	19.868	0.048	74.9	354 355 356	52 3482
8343	8.1	28 48.86	2.8408	0.0323	51 55 10.6	19.869	0.048	77.9	595 601 602	51 3647
8344	9.2	28 51.55	2.8459	0.0318	51 20 16.7	19.869	0.048	77.9	597 601α 606 607	51 3648
8345	8.1	28 57.06	2.8412	0.0324	51 59 6.2	19.870	0.048	76.6	447 449 594	51 3649
8346	8.6	23 28 59.01	+2.8480	+0.0317	+ 51 11 21.8	+19.871	+0.048	84.8 85.2	738 739α 897 903	51 3650
8347	8.3	28 59.60	2.8485	0.0316	51 8 1.5	19.871	0.048	78.4	592 593 697 699	51 3651
8348	8.7	29 9.52	2.8419	0.0326	52 5 46.7	19.873	0.047	78.9	704 706 707	51 3652
8349	8.2	29 20.12	2.8464	0.0323	51 42 14.0	19.875	0.047	83.9	742 747 756 757	51 3653
8350	6.8	29 27.44	2.8481	0.0322	51 35 56.6	19.876	0.047	77.8	589 591	51 3655

[1] 18″.5 23″.7 18″.0 24″.0

[2] Z. 586 738 739 740 742

[3] Z. 2 3α 5 7 138 139

[4] Z. 606 738 739 900α 902α

[5] Z. 197 742 747 756 757

[6] Z. 703 752 900 902 903

[7] Z. 502 503 508 509 584 585

[8] Z. 5 7 354 355 356 753 756 757

[9] Z. 2 258 260 264 447 449 747

[10] Z. 197 738 739 740α 741α

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8351	8.9	$23^h\ 29^m 27^s.60$	+2.8545	+0.0314	+ 50°47′ 16″.2	+19.876	+0.047	74.4	261 264 354 356	[50° 4086]
8352	8.5	29 32.27	2.8343	0.0339	53 19 30.6	19.877	0.046	73.4	130 132 351 353	53 3196
8353	7.1	29 43.19	2.8580	0.0313	50 34 20.1	19.879	0.046	72.1	5 obs. [1]	50 4087
8354	8.9	29 44.67	2.8340	0.0342	53 32 29.5	19.880	0.046	77.3	7 obs. [2]	53 3197
8355	8.8	29 44.83	2.8385	0.0336	53 1 30.6	19.880	0.046	80.2	197 740 741	52 3484
8356	9.0	23 29 48.23	+2.8362	+0.0340	+ 53 20 59.2	+19.880	+0.046	83.8	738 739	53 3198
8357	8.8	29 48.78	2.8467	0.0328	52 5 37.8	19.881	0.046	77.8	584 585	51 3658
8358	9.0	29 49.77	2.8572	0.0315	50 47 6.5	19.881	0.046	74.4 74.6	261 264α 355 356	50 4088
8359	8.8	29 52.28	2.8485	0.0326	51 55 26.2	19.881	0.046	77.9	592 593	51 3660
8360	9.0	29 53.90	2.8574	0.0316	50 49 29.9	19.882	0.046	79.6 83.9	3α 751 752	50 4089
8361	...	23 29 55.13	+2.8573	+0.0316	+ 50 50 56.4	+19.882	+0.046	83.9	751α 752	[50 4091]
8362	9.0	30 2.32	2.8496	0.0327	51 56 28.3	19.883	0.046	77.9	592 593	51 3661
8363	9.3	30 8.86	2.8615	0.0313	50 30 22.0	19.884	0.046	75.9	447 449	50 4092
8364	8.4	30 19.83	2.8366	0.0346	53 46 41.7	19.886	0.045	77.4	502 503 601 602	53 3202
8365	9.0	30 28.49	2.8608	0.0318	50 54 31.1	19.888	0.045	78.5	5 obs. [3]	50 4093
8366	8.9	23 30 28.52	+2.8565	+0.0323	+ 51 28 46.5	+19.888	+0.045	76.5	264 589 591	51 3664
8367	9.6	30 30.58	2.8362	0.0348	53 59 17.8	19.888	0.044	74.9	351 353	53 3203
8368	8.5	30 31.20	2.8647	0.0314	50 26 8.0	19.888	0.045	71.9	138 139	50 4094
8369	9.0	30 32.93	2.8535	0.0328	51 55 43.2	19.889	0.045	77.9	594 595	51 3665
8370	8.4	30 39.16	2.8435	0.0341	53 15 41.6	19.890	0.044	75.9	447 449	53 3204
8371	8.1	23 30 55 83	+2.8589	+0.0326	+ 51 35 37.3	+19.893	+0.044	79.7	5 obs. [4]	51 3666
8372	9.2	31 0.22	2.8594	0.0326	51 35 39.9	19.894	0.044	81.6	7 obs. [5]	51 3667
8373	7.6	31 7.36	2.8512	0.0338	52 45 40.5	19.895	0.044	81.6	197 904 905	52 3486
8374	9.6	31 12.13	2.8377	0.0355	54 27 27.6	19.896	0.043	71.8	130 132	54 3012
8375	7.3	31 15.12	2.8317	0.0363	55 11 6 8	19.897	0.043	77.9	597 598	55 2990
8376	9.0	23 31 22.20	+2.8718	+0.0314	+ 50 16 14.7	+19.898	+0.044	72.4	5 7 258 260	50 4097
8377	9.0	31 36.57	2.8427	0.0354	54 15 31.7	19.901	0.042	77.2	6 obs. [6]	54 3014
8378	9.5	31 37.95	2.8616	0.0330	51 55 26.6	19.901	0.043	77.8	584 585	51 3669
8379	9.0	31 39.80	2.8440	0.0353	54 9 19.8	19.901	0.042	77.9	594 595	54 3015
8380	8.8	31 41.38	2.8484	0.0348	53 38 46.8	19.901	0.042	74.9	351 353	53 3206
8381	8.7	23 31 41.73	+2.8648	+0.0327	+ 51 33 8.5	+19.902	+0.043	78.4	589 591 706 707	51 3670
8382	9.4	31 46.42	2.8763	0.0313	50 1 43.1	19.902	0.043	79.5	1 738 739	49 4175
8383	9.1	31 46.81	2.8749	0.0315	50 14 23.1	19.902	0.043	75.4	354 355 447 449	50 4098
8384	8.3	31 51.72	2.8628	0.0332	51 59 19.6	19.903	0.043	85.4	752 900 903 907	51 3671
8385	7.9	31 59.09	2.8626	0.0333	52 7 48.8	19.905	0.042	81.9	263 902 908	52 3487
8386	9.0	23 31 59.26	+2.8390	+0.0364	+ 55 3 20.6	+19.905	+0.042	81.4 81.9	6 obs. [7]	54 3016
8387	8.2	31 59.50[8]	2.8742	0.0318	50 33 0.7	19.905	0.042	85.4	747 897 909 911	50 4099
8388	9.4	32 0.44	2.8628	0.0333	52 7 33.6	19.905	0.042	79.9	263 902	52 3487
8389	8.8	32 5.33	2.8686	0.0327	51 25 44.8	19.906	0.042	78.9	718 719 720	51 3673
8390	8.8	32 5.75	2.8381	0.0367	55 15 12.3	19.906	0.042	80.9	597 598 740 741	55 2992
8391	8.4	23 32 11.29	+2.8450	+0.0359	+ 54 32 23.9	+19.907	+0.042	71.8	130 132	54 3017
8392	8.8	32 11.97	2.8464	0.0358	54 23 19.4	19.907	0.042	77.9	606 607	54 3018
8393	8.4	32 32.35	2.8513	0.0356	54 6 57.8	19.910	0.041	77.0	7 obs. [9]	54 3019
8394	8.6	32 42.07	2.8455	0.0366	54 58 51.9	19.912	0.041	79.4	589 594 595 738	54 3020
8395	8.9	32 47.86	2.8779	0.0322	50 49 44.6	19.913	0.041	71.2	6 obs. [10]	50 4100
8396	7.7	23 32 52.39	+2.8569	+0.0352	+ 53 45 0.4	+19.914	+0.040	74.9	351 353	53 3207
8397	7.5	32 59.59	2.8741	0.0330	51 34 13.3	19.915	0.041	73.6	6 obs. [11]	51 3676
8398	8.4	33 3.71	2.8567	0.0355	53 58 19.7	19.916	0.040	75.9	447 449	53 3208
8399	9.2	33 20.38	2.8540	0.0363	54 35 15.5	19.919	0.040	76.4 78.3	5 obs. [12]	54 3021
8400	9.0	33 29.22	2.8841	0.0322	50 38 46.8	19.920	0.040	73.6	1 351 353	50 4106

[1] Z. 2 5 7 258 260

[2] Z. 502 503 508 509 594 606 607

[3] Z. 354 355 356 738 739

[4] Z. 261 593 707 751 752

[5] Z. 261 593 741 742 753 756 757

[6] Z. 502 503 508 509 606 607

[7] Z. 712 715α 716 753 756 757

[8] 59″.51 59″.70 59″.57 59″.23

[9] Z. 445 502 503 508 509 584 585

[10] Z. 2 3 5 7 138 139

[11] Z. 196 197 258 260 261 264

[12] Z. 130 132 445 903 907∂

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8401	9.3	23h 33m 58s.81	+2s.8631	+0s.0359	+ 54° 5′ 3″.9	+19″.925	+0″.038	83.9	738 740 741	53° 3211
8402	9.0	34 0.62	2.8863	0.0328	50 51 52.9	19.925	0.039	71.9	6 obs. [1]	50 4109
8403	9.0	34 5.76	2.8839	0.0330	51 19 11.0	19.926	0.039	85.4	742 900 904 905	51 3680
8404	9.0	34 10.48	2.8925	0.0318	50 5 1.8 [2]	19.927	0.039	85.9	902 906α 909	49 4184
8405	9.1	34 20.42	2.8875	0.0328	51 2 26.3	19.929	0.038	74.5 74.4	258 260 354 355 356α	50 4111
8406	8.6	23 34 35.10	+2.8647	+0.0366	+ 54 31 4.4	+19.931	+0.038	71.8	130 132	54 3024
8407	7.6	34 42.10	2.8661	0.0365	54 27 23.2	19.932	0.038	77.0	7 obs. [3]	54 3025
8408	7.4	34 42.85	2.8847	0.0338	51 52 2.6	19.932	0.038	79.9	594 595 738	51 3682
8409	9.0	34 43.76	2.8823	0.0341	52 14 27.6	19.932	0.038	72.9	196 197	52 3491
8410	8.5	34 45.07	2.8838	0.0339	52 2 19.6	19.933	0.038	76.9	353 597 598	51 3683
8411	8.2	23 35 9.23	+2.8936	+0.0330	+ 50 59 31.7	+19.937	+0.037	71.9 71.3	8 obs. [4]	50 4115
8412	9.2	35 13.60	2.8716	0.0365	54 17 45.2	19.937	0.037	77.8	589 591	54 3026
8413	8.6	35 16.55	2.8809	0.0351	53 2 40.1	19.938	0.037	76.6	263 601 602	52 3493
8414	8.0	35 18.68	2.8900	0.0338	51 44 28.7	19.938	0.037	74.9	355 356	51 3684
8415	8.7	35 20.38	2.8770	0.0358	53 40 7.6	19.938	0.036	77.4	508 509 584 585	53 3215
8416	8.9	23 35 33.10	+2.8888	+0.0343	+ 52 11 17.4	+19.940	+0.036	75.9	444 445	52 3494
8417	9.1	35 46.13	2.8980	0.0331	51 0 20.6	19.942	0.036	72.4	1 2 258 260	50 4119
8418	8.8	35 49.26	2.8888	0.0347	52 29 38.0	19.943	0.036	81.1	197 738 740 741	52 3495
8419	8.4	35 50.46	2.8786	0.0364	54 0 16.0	19.943	0.036	73.4	130 132 351 353	53 3218
8420	8.7	35 51.28	2.8964	0.0335	51 20 58.5	19.943	0.036	81.9	593 742 747	51 3686
8421	9.1	23 36 3.96	+2.8998	+0.0333	+ 51 3 47.0	+19.945	+0.036	73.9	261 264	50 4121
8422	8.9	36 18.46	2.8976	0.0340	51 41 11.7	19.947	0.035	77.9	594 595	51 3689
8423	8.4	36 23.93	2.8837	0.0364	53 54 27.2	19.948	0.035	77.4	502 503 589 591	53 3219
8424	7.6	36 34.82	2.9054	0.0330	50 44 2.7	19.950	0.035	73.1	5 7 258 351 353	50 4124
8425	8.9	36 39.37	2.9007	0.0340	51 36 10.4	19.950	0.034	79.9	597 598 738	51 3690
8426	9.3	23 36 42.04	+2.8918	+0.0356	+ 53 3 53.8	+19.951	+0.034	74.6	263 354 355	52 3498
8427	9.4	36 52.69	2.8972	0.0349	52 25 19.9	19.952	0.034	74.9	196 444 445	52 3501
8428	6.7	36 58.86	2.9052	0.0337	51 14 45.8	19.953	0.034	81.9	593 742 747	51 3692
8429	8.8	36 59.20	2.8966	0.0352	52 38 43.7	19.953	0.034	75.9	447 449	52 3502
8430	6.3	37 0.84 [5]	2.8980	0.0350	52 27 31.9	19.954	0.034	80.2	197 756 757	52 3503
8431	7.1	23 37 7.49	+2.9044	+0.0340	+ 51 33 14.7	+19.954	+0.034	79.9	594 595 738	51 3694
8432	7.9	37 16.90	2.9134	0.0327	50 12 53.4	19.956	0.034	71.9	138 139	50 4130
8433	9.0	37 32.42	2.9132	0.0331	50 34 22.1	19.958	0.033	75.6 77.3	1 261 264 756δ 757	50 4133
8434	9.0	37 33.91	2.9033	0.0349	52 17 12.5	19.958	0.033	76 2	7 obs. [6]	52 3504
8435	7.4	38 18.24	2.8950	0.0376	54 30 47.1	19.964	0.031	71.8	130 132	54 3033
8436	8.0	23 38 24.47	+2.8940	+0.0380	+ 54 47 50.3	+19.965	+0.031	76.7	444 445 502 503 593	54 3035
8437	8.2	38 37.33	2.8964	0.0380	54 41 56.6	19.967	0.031	77.8	589 591	54 3036
8438	8.4	38 39.58	2.9229	0.0330	50 13 13.3	19.967	0.031	73.9	198 199 264 351 353	50 4139
8439	6.5	38 43.13	2.8945	0.0385	55 6 21.6	19.968	0.030	81.9	594 595 897 900	55 3010
8440	9.0	38 56.74	2.9257	0.0329	50 4 48.7	19.970	0.031	78.7	5 7 738 740 741	49 4210
8441	8.8	23 39 8.18	+2.9265	+0.0331	+ 50 9 59.2	+19.971	+0.030	74.6	261 354 355 356	50 4142
8442	8.8	39 48.49	2.9101	0.0375	54 2 30.4	19.976	0.029	74.9	351 353	53 3228
8443	8.9	39 52.43	2.9199	0.0356	52 24 43.3	19.977	0.029	72.9	196 197	52 3518
8444	7.4	39 54.50	2.9329	0.0330	49 58 8.6	19.977	0.029	80.6	2 738 740 741	49 4215
8445	8.9	39 55.04	2.9075	0.0382	54 36 49.3	19.977	0.028	77.5	503 589 591	54 3042
8446	8.9	23 39 56.92	+2.9094	+0.0379	+ 54 20 55.8	+19.978	+0.029	75.8	130 132 445 742	54 3041
8447	9.3	39 58.86	2.9304	0.0337	50 34 43.6	19.978	0.029	73.2	138 261 264	50 4143
8448	8.2	40 2.81	2.9332	0.0332	50 5 35.0	19.978	0.029	79.9	5 7 897 900 906	49 4219
8449	9.8	40 3.24	2.9341	0.0330	49 55 10.4	19.978	0.029	83.9	744 745	49 4218
8450	8.7	40 14.76	2.9200	0.0363	52 55 9.3	19.980	0.028	73.9	262 263	52 3520

[1] Z. 2 3 5 7 261 264 [2] 2″.4 [7″.0] 1″.1 [3] Z. 445 502 503 508 509 584 585

[4] Z. 1 3α 5 7 138 139 258α 260α [5] 0″.61 1″.11 0″.81 [6] Z. 263 354 355 508 509 589 591

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8451	7.8	$23^h\ 40^m\ 28^s.56$	$+2^s.9130$	$+0^s.0382$	$+\ 54°\ 27'\ 30''.4$	$+19''.982$	$+0''.028$	77.9	594 595	54°3043
8452	8.2	40 39.86	2.9199	0.0371	53 30 29.6	19.983	0.027	74.9	351 353	53 3230
8453	7.6	40 45.09	2.9169	0.0379	54 10 1.9	19.984	0.027	74.4	130 132 508 509	54 3044
8454	7.5	40 46.55	2.9362	0.0338	50 32 6.1	19.984	0.027	72.9	7 261 264	50 4147
8455	9.6	40 49.18	2.9329	0.0346	51 15 41.1	19.984	0.027	72.9	198 199	51 3710
8456	8.4	23 40 54.86	+2.9356	+0.0342	+ 50 51 46.0	+19.985	+0.027	73.9	1 354 355 356	50 4150
8457	9.0	41 4.08	2.9280	0 0362	52 34 53.2	19.986	0.027	83.9	742 747	52 3522
8458	9.0	41 6.10	2.9400	0.0335	50 12 20.5	19.986	0.027	75.6	2 597 598	50 4151
8459	9.0	41 21.11	2.9304	0.0362	52 32 11.8	19.988	0.026	73.9	262 263	52 3525
8460	8.8	41 42.27	2.9396	0.0347	51 12 9.6	19.990	0.026	74.4	198 354 355 356	51 3714
8461	8.8	23 41 46.63	+2.9333	+0.0364	+ 52 36 27.9	+19.991	+0.025	76.7	5 obs. [1]	52 3526
8462	8.8	41 48.41	2.9406	0.0347	51 8 32.7	19.991	0.025	73.6 73.9	199α 261 264	51 3716
8463	9.0	42 12.31	2.9383	0.0360	52 14 49.9	19.994	0.025	77.9	597 598	52 3528
8464	8.8	42 12.53	2.9367	0.0364	52 34 41.5	19.994	0.025	76.2	196 444 606 607	52 3529
8465	7.8	42 13.82	2.9297	0.0382	54 0 15.9	19.994	0.024	74.9	351 353	53 3233
8466	9.2	23 42 14.06	+2.9357	+0.0367	+ 52 50 6.1	+19.994	+0.024	78.9	708 709	52 3530
8467	9.1	42 15 80	2.9232	0.0397	55 15 36.3	19.994	0.024	77.9	593 601 602	55 3020
8468	8.7	42 17.74	2.9370	0.0366	52 39 41.1	19.994	0.024	82.2	704 742 747	52 3531
8469	8.9	42 23.14	2.9259	0.0394	54 57 17.9	19.995	0.024	71.8	130 132	54 3050
8470	9.1	42 29.93	2.9297	0.0388	54 24 55.5	19.996	0.024	77.4	508 509 589 591	54 3051
8471	8.0	23 42 33.55	+2.9509	+0.0337	+ 50 3 28.4	+19.996	+0.024	83.9	738 740 741	49 4237
8472	9.0	42 36.93	2.9405	0.0364	52 26 1.5	19.997	0.024	75.9	262 263 594 595	52 3534
8473	9.5	42 40.82 [2]	2.9273	0.0397	55 8 48.8	19.997	0.024	82.2 81.4	697δ 699 744 745	55 3022
8474	9.0	42 43.18	2.9473	0.0349	51 7 50.4	19.997	0.024	72.9	1 261 264	51 3719
8475	8.6	42 46.10	2.9382	0.0373	53 9 50.2	19.998	0.024	78.9	706 707	53 3234
8476	8.6	23 42 48.24	+2.9416	+0.0365	+ 52 30 28.0	+19.998	+0.024	74.9	354 355 356	52 3537
8477	9.1	43 4.16	2.9349	0.0388	54 17 56.8	20.000	0.023	78.6	593 701 703	54 3052
8478	9.2	43 4.16	2.9533	0.0341	50 18 47.4	20.000	0.023	71.9	138 139	50 4161
8479	8.5	43 19.12	2.9336	0.0397	54 57 50.6	20.001	0.022	71.8	130 132	54 3053
8480	8.9	43 21.10	2.9482	0.0360	51 57 28.9	20.001	0.023	72.9	198 199	51 3721
8481	8.6	23 43 27.20	+2.9393	+0.0385	+ 54 1 56.9	+20.002	+0.022	75.9	351 353 598	53 3235
8482	8.8	43 27.52	2.9460	0.0368	52 37 10.4	20.002	0.022	72.9	196 197	52 3539
8483	9.0	43 34.21	2.9493	0.0362	52 5 10.6	20.003	0.022	77.9	601 602	51 3723
8484	8.8	43 40.94	2.9530	0.0355	51 25 21.0	20.003	0.022	82.7 81.9	5 obs. [3]	51 3724
8485	9.1	43 45.15	2.9418	0.0386	54 0 56.2	20.004	0.022	79.9	597 598 738	53 3236
8486	9.6	23 43 49.88	+2.9594	+0.0341	+ 50 7 23.5	+20.004	+0.022	77.2	264 706 707	50 4163
8487	9.4	43 56.85	2.9420	0.0392	54 25 14.2	20.005	0.021	77.1	5 obs. [4]	54 3054
8488	9.0	43 58.95	2.9519	0.0364	52 11 21.9	20.005	0.021	80.6	262 742 745	52 3541
8489	9 0	43 59.66	2.9454	0.0382	53 39 49.0	20.005	0.021	77.9	593 594 595	53 3237
8490	8.7	44 2.03	2.9522	0.0365	52 12 37.0	20.006	0.021	78.6	7 obs. [5]	52 3543
8491	6.3	23 44 8.14	+2.9583	+0.0350	+ 50 55 39.1	+20.006	+0.021	76.7	5 obs. [6]	50 4165
8492	9.2	44 15.92	2.9630	0.0340	49 58 58.9	20.007	0.021	83.9	740 741	49 4245
8493	8.7	44 23.57	2.9451	0.0393	54 25 20.4	20.008	0.021	80.3 81.4	6 obs. [7]	54 3055
8494	7.0	44 26.32	2.9496	0.0381	53 30 17.5	20.008	0.020	74.9	351 353	53 3238
8495	9.0	44 26.88	2.9594	0.0354	51 12 58.0	20.008	0.021	77.9	601 602	51 3726
8496	8.9	23 44 37.12	+2.9515	+0.0380	+ 53 23 47.6	+20.009	+0.020	80.9	606 607 756 757	53 3239
8497	9.2	44 44.48	2.9635	0.0349	50 42 48.6	20.010	0.020	73.9	261 264	50 4169
8498	8.6	44 45.18	2.9604	0.0358	51 31 47.1	20.010	0.020	72.9	198 199	51 3727
8499	7.4	44 45.87	2.9637	0.0349	50 42 11.7	20.010	0.020	73.9	261 264	50 4169
8500	8.1	44 55.46	2.9651	0.0349	50 38 49.4	20.011	0.020	71.9	138 139	50 4170

[1] Z. 197 445 594 595 705
[2] [40.39] 40.71 41.04 40.72
[3] Z. 604 605 897 907 908α
[4] Z. 444 508 509 589 591
[5] Z. 263 354 355 356 742 744 745
[6] Z. 2 7 701 703 747
[7] Z. 132 509δ 744 745 900 903

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8501	8.6	23h 44m 55.56	+2.9622	+0.0357	+ 51° 23′ 50.2	+20.011	+0.020	77.9	604 605	51° 3729
8502	9.0	45 4.82	2.9469	0.0406	55 14 37.5	20.012	0.019	78.9	708 709	[55 3032]
8503	8.7	45 7.62	2.9558	0.0381	53 19 34.6	20.012	0.019	74.9	351 353	53 3241
8504	8.6	45 18.16	2.9671	0.0352	50 49 30.4	20.013	0.019	73.7	2 5 7 597 598	50 4171
8505	9.1	45 25.10	2.9537	0.0395	54 20 49.2	20.014	0.019	71.8	130 132	54 3057
8506	8.6	23 45 31.94	+2.9627	+0.0371	+ 52 24 1.0	+20.014	+0.019	84.4	738 744 745 897	52 3545
8507	8.4	45 37.09	2.9515	0.0407	55 13 47.4	20.015	0.018	78.9	705 708 709	55 3036
8508	8.9	45 42.05	2.9636	0.0372	52 30 43.2	20.015	0.018	75.5	7 obs. [1]	52 3546
8509	8.7	45 49.58	2.9646	0.0372	52 28 40.5	20.016	0.018	85.2	742 905 906	52 3547
8510	8.7	45 54.01	2.9559	0.0402	54 46 0.2	20.016	0.018	77.4	508 509 589 591	54 3058
8511	7.6	23 46 26.07	+2.9651	+0.0388	+ 53 34 30.5	+20.019	+0.017	77.6	9 obs. [2]	53 3244
8512	9.3	46 35.87	2.9717	0.0370	52 9 1.9	20.020	0.017	74.9	354 355 356	52 3551
8513	8.2	46 36.05	2.9666	0.0387	53 31 30.6	20.020	0.017	77.9	593 594 595	53 3245
8514	8.7	46 47.05	2.9678	0.0389	53 35 7.1	20.021	0.016	79.9	9 obs. [3]	53 3246
8515	9.2	46 56.15	2.9811	0.0347	50 6 25.3	20.022	0.016	76.5	7 obs. [4]	49 4258
8516	8.9	23 46 59.69	+2.9738	+0.0374	+ 52 23 42.1	+20.022	+0.016	73.4	196 197 262 263	52 3552
8517	8.2	47 9.94	2.9750	0.0375	52 25 43.6	20.023	0.016	77.2	444 589 591	52 3554
8518	9.1	47 16.90	2.9813	0.0356	50 48 57.2	20.023	0.015	73.9	138 139 593	50 4179
8519	8.2	47 18.03	2.9800	0.0361	51 14 33.2	20.023	0.015	72.9	198 199	51 3734
8520	7.1	47 18.18	2.9814	0.0356	50 49 37.7	20.023	0.015	75.5	138 139 593 594 595	50 4180
8521	9.3	23 47 29.37	+2.9711	+0.0399	+ 54 11 20.0	+20.024	+0.015	74.4	130 132 508 509	54 3061
8522	8.6	47 47.08	2.9715	0.0407	54 44 42.0	20.026	0.014	77.2	444 589 591	54 3062
8523	9.1	47 51.31	2.9814	0.0373	52 4 28.4	20.026	0.014	74.9	354 355 356	51 3736
8524	8.6	48 10.70	2.9779	0.0396	53 50 35.4	20.028	0.014	74.9	351 353	53 3248
8525	8.3	48 19.39[5]	2.9770	0.0404	54 26 4.8	20.028	0.014	79.9	594 595 738	54 3066
8526	8.0	23 48 32.62	+2.9842	+0.0383	+ 52 48 9.3	+20.029	+0.013	73.4	196 197 262 263	52 3559
8527	9.6	48 37.80	2.9814	0.0398	53 52 21.6	20.030	0.013	83.9	742 745	53 3251
8528	8.2	48 48.90	2.9828	0.0398	53 53 42.2	20.030	0.013	76.4	357 358 592 593	53 3253
8529	8.9	48 56.92	2.9815	0.0409	54 37 45.7	20.031	0.012	77.1	444 508 509 589 591	54 3070
8530	8.7	49 1.69	2.9931	0.0363	51 1 50.3	20.031	0.012	72.5	2 5 7 351 353	50 4187
8531	9.1	23 49 4.75	+2.9959	+0.0353	+ 50 10 52.6	+20.032	+0.012	73.7	138 139 354 355 356	50 4188
8532	6.7	49 14.84	2.9919	0.0376	52 2 21.0	20.032	0.012	76.2	199 594 595	51 3739
8533	8.7	49 54.06	2.9897	0.0410	54 29 29.4	20.035	0.011	77.1	444 508 509 589 591	54 3073
8534	8.7	49 58.15	2.9960	0.0383	52 29 28.3	20.035	0.010	73.4	196 197 262 263	52 3561
8535	8.0	50 13.30	2.9965	0.0390	53 1 0.0	20.036	0.010	77.9	594 595	52 3563
8536	8.7	23 50 14.22	+2.9956	+0.0395	+ 53 22 20.5	+20.036	+0.010	80.4 78.6	351 353 897α 905	53 3255
8537	7.7	50 16.01	2.9962	0.0394	53 15 52.2	20.036	0.010	80.4	357 358 897 907	53 3256
8538	9.3	50 16.64	3.0039	0.0357	50 18 31.1	20.036	0.010	74.9	354 355 356	50 4192
8539	9.0	50 18.92	3.0030	0.0363	50 47 48.0	20.036	0.010	74.4	5 7 592 593	50 4193
8540	7.0	50 38.05	2.9938	0.0421	55 8 41.2	20.038	0.009	77.9	601 602	55 3055
8541	8.4	23 50 39.65	+3.0038	+0.0372	+ 51 28 3.1	+20.038	+0.009	75.9	6 obs. [6]	51 3744
8542	8.6	50 48.90	3.0010	0.0392	53 2 59.0	20.038	0.009	73.9	262 263	52 3564
8543	9.1	50 48.97	3.0056	0.0369	51 11 55.2	20.038	0.009	83.9	740 741	51 3745
8544	5.8	50 50.90	2.9960	0.0419	55 0 36.8	20.038	0.009	77.9	592 593	54 3076
8545	8.7	51 1.96	2.9990	0.0412	54 27 6.5	20.039	0.008	78.2	6 obs. [7]	54 3078
8546	8.2	23 51 25.94	+3.0003	+0.0424	+ 55 12 8.2	+20.040	+0.008	80.6	601 602 903	55 3058
8547	9.1	51 30.81	3.0068	0.0392	52 53 4.7	20.040	0.008	72.9	196 197	52 3567
8548	8.7	51 43.26	3.0094	0.0388	52 29 1.8	20.041	0.007	83.9	742 744 745	52 3569
8549	8.8	51 44.79	3.0146	0.0358	50 8 27.7	20.041	0.007	72.2	6 obs. [8]	50 4198
8550	9.1	51 50.01	3.0148	0.0361	50 20 12.0	20.042	0.007	74.9	351 353	50 4199

[1] Z. 196 197 263 354 355 356 747

[2] Z. 351 353 358 601 604 605 606 607 747

[3] Z. 601 602 604 605 606 607 747 756 757

[4] Z. 1 2 5 7 738 740 741

[5] 19.66 19.36 19.15

[6] Z. 198 199 508 509 589 591

[7] Z. 357 358 444 445 747 758

[8] Z. 1 138 139 140 141 360

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8551	7.8	$23^h\ 52^m\ 4^s.04$	+3ˢ.0157	+0ˢ.0366	+ 50°41′31″.9	+20″.042	+0″.006	73.3	5 obs. [1]	50° 4202
8552	9.0	52 13.52	3.0170	0.0365	50 37 37.8	20.043	+0.006	77.9	594 595	50 4203
8553	8.9	52 16.14	3.0185	0.0358	50 0 7.8	20.043	+0.006	83.9	740 741	49 4294
8554	7.6	52 21.79	3.0138	0.0392	52 41 29.2	20.043	+0.006	74.9	262 263 444 445	52 3570
8555	8.5	52 29.31	3.0142	0.0396	52 58 35.2	20.044	+0.006	77.4	508 509 589 591	52 3571
8556	8.6	23 52 33.32	+3.0184	+0.0372	+ 51 7 45.6	+20.044	+0.006	72.9	198 199	51 3750
8557	8.4	52 35.04	3.0112	0.0420	54 40 14.0	20.044	+0.005	74.9	357 358	54 3081
8558	5.5	52 40.62	3.0111	0.0426	55 3 33.0	20.044	+0.005	77.9	592 593	54 3082
8559	8.0	52 41.93	3.0166	0.0391	52 33 24.8	20.044	+0.005	72.9	196 197	52 3573
8560	8.0	52 42.02	3.0136	0.0410	54 0 56.8	20.044	+0.005	76.2	351 353 703	53 3265
8561	8.3	23 52 45.89	+3.0114	+0.0429	+ 55 15 36.5	+20.044	+0.005	80.6	601 602 900	55 3064
8562	7.5	52 52.12	3.0173	0.0395	52 52 4.2	20.044	+0.005	76.9 77.9	360α 604 605	52 3575
8563	8.9	52 52.14	3.0175	0.0394	52 47 26.4	20.044	+0.005	73.9	262 263	52 3574
8564	9.0	52 57.39	3.0174	0.0400	53 10 32.2	20.045	+0.005	77.9	606 607	53 3266
8565	8.7	53 8.84	3.0164	0.0418	54 25 21.0	20.045	+0.004	75.9	444 445	54 3084
8566	8.8	23 53 11.48	+3.0176	+0.0412	+ 53 59 33.8	+20.045	+0.004	78.9	701 703	53 3267
8567	7.4	53 11.87	3.0247	0.0362	50 8 11.9	20.045	+0.004	78.5	7 obs. [2]	50 4208
8568	8.7	53 14.60	3.0194	0.0402	53 17 30.6	20.046	+0.004	77.8	589 591	53 3268
8569	8.6	53 24.25	3.0190	0.0415	54 10 35.5	20.046	+0.004	78.9	704 708 709	54 3089
8570	8.3	53 24.54	3.0182	0.0420	54 34 50 0	20.046	+0.004	78.9	706 707	54 3088
8571	9.1	23 53 32.69	+3.0192	+0.0421	+ 54 36 36.3	+20.046	+0.004	78.9	706 707	[54 3090]
8572	8.7	53 50.00	3.0285	0.0369	50 35 15.2	20.047	+0.003	71.4	5 7 140 141	50 4210
8573	8.7	53 50.45	3.0293	0.0363	50 5 42.4	20.247	+0.003	82.9	7 obs. [3]	49 4303
8574	8.8	53 52.52	3.0212	0.0428	55 0 12.7	20.047	+0.003	80.9 81.6	5 obs. [4]	54 3091
8575	9.4	53 54.32	3.0298	0.0362	50 3 27.9	20.047	+0.003	83.9	758 759α	[49 4304]
8576	8.7	23 53 59.98	+3.0227	+0.0425	+ 54 45 40.0	+20.047	+0.003	75.9	444 445	54 3092
8577	8.9	54 2.20	3.0289	0.0377	51 14 37.0	20.048	+0.003	73.9	198 199 359 360	51 3756
8578	8.7	54 6.58	3.0256	0.0409	53 36 23.2	20.048	+0.003	74.9	351 353	53 3270
8579	9.0	54 20.15	3.0282	0.0403	53 7 35.1	20.048	+0.002	74.9	357 358	53 3271
8580	8.7	54 20.38	3.0250	0.0430	55 1 35.6	20.048	+0.002	80.9 77.6	5 obs. [5]	54 3093
8581	8.0	23 54 28.42	+3.0337	+0.0364	+ 50 7 4.9	+20.048	+0.002	73.9 73.6	2 354 355 356α	50 4215
8582	9.1	54 29.53	3.0298	0.0400	52 53 58.5	20.048	+0.002	80.9	196 742 903	52 3579
8583	8.8	54 31.14	3.0328	0.0375	50 58 53.3	20.048	+0.002	74.4 75.5	5 7α 589 591	50 4216
8584	9.0	54 32.33	3.0306	0.0396	52 34 6.1	20.049	+0.002	73.9	262 263	52 3580
8585	9.0	54 33.78	3.0344	0.0363	50 0 24.6 [6]	20.049	+0.002	84.4 83.9	738 740 741 907α	49 4307
8586	8.6	23 54 37.54	+3.0330	+0.0380	+ 51 23 5.0	+20.049	+0.002	78.9	706 707	51 3758
8587	9.2	54 37.78	3.0328	0.0383	51 34 25.1	20.049	+0.002	78.9	708 709	51 3757
8588	9.4	54 44.38 [7]	3.0331	0.0387	51 54 59.2	20.049	+0.001	82.2 81.4	703 744δ 745	51 3760
8589	8.1	54 44.42	3.0323	0.0395	52 28 15.9	20.049	+0.001	77 9	592 604 605	52 3581
8590	8.8	54 52.83	3.0333	0.0396	52 30 33.8	20.049	+0.001	74.9	359 360	52 3582
8591	8.8	23 55 20.08	+3.0380	+0.0384	+ 51 31 12.3	+20.050	0.000	72.9	198 199	51 3761
8592	8.6	55 23.28	3.0377	0.0391	52 4 35.1	20.050	0.000	74.9	354 355 356	51 3762
8593	8.7	55 49.53	3.0384	0.0423	54 18 14.6	20.051	−0.001	75.4	357 358 444 445	54 3097
8594	8.6	55 56.18	3.0420	0.0390	51 53 27.8	20.051	−0.001	73.9	262 263	51 3764
8595	9.0	56 2.10	3.0410	0.0411	53 26 23.2	20.051	−0.001	74.9	351 353	53 3275
8596	8.8	23 56 7.06	+3.0441	+0.0380	+ 51 8 3.3	+20.051	−0.001	74.9	359 360	51 3766
8597	8.3	56 10.62	3.0417	0.0418	53 51 24.1	20.052	−0.001	74.9	354 355 356	53 3276
8598	8.4	56 11.68	3.0407	0.0433	54 52 37.3	20.052	−0.001	77.4	508 509 589 591	54 3101
8599	8.1	56 15.97	3.0456	0.0376	50 46 34.7	20.052	−0.002	71.2 71.4	6 obs. [8]	50 4226
8600	9.1	56 16.13	3.0463	0.0367	50 2 8.4	20.052	−0.001	79.6	2 740 741	49 4315

[1] Z. 5 7 354 355 356
[2] Z. 1 2 594 595 742 744 745
[3] Z. 1 738 740 741 897 907 908
[4] Z. 509 601α 602 905 906
[5] Z. 508 601 602 905α 906α
[6] 25″.4 23″.9 24″.4 [29″.8]
[7] 44ˢ.32 [44ˢ.92] 44ˢ.45
[8] Z. 1α 3α 5 7 140 141

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Nr.	Mag.	R.A. 1875	Prec.	Sec. var.	Decl. 1875	Prec.	Sec. var.	Ep.	Zones	B. D.
8601	8.0	$23^h\ 56^m\ 41^s.88$	+3ˢ.0478	+0ˢ.0390	+ 51°46′ 11″.4	+20″.052	−0″.002	72.9	198 199	51°3769
8602	9.2	56 47.10	3.0466	0.0419	53 49 14.7	20.052	0.002	74.9	357 358 359 360	53 3277
8603	8.9	56 54.26	3.0484	0.0405	52 50 36.9	20.052	0.003	79.4	196 197 900 903	52 3588
8604	7.0	57 2.70	3.0478	0.0435	54 51 18.2	20.053	0.003	75.9	444 445	54 3103
8605	8.4	57 3.79	3.0498	0.0403	52 37 0.9	20.053	0.003	73.9	262 263	52 3590
8606	8.3	23 57 5.84	+3.0486	+0.0428	+ 54 21 49.6	+20.053	−0.003	77.9	589 606 607	54 3104
8607	8.7	57 26.20	3.0528	0.0402	52 29 55.6	20.053	0.004	74.9	354 355 356	52 3592
8608	7.7	57 56.07	3.0559	0.0418	53 34 43.5	20.053	0.005	80.3	5 obs. [1]	53 3280
8609	8.9	58 4.32	3.0583	0.0385	51 8 0.9	20.054	0.005	72.9	198 199	51 3773
8610	9.4	58 11.18	3.0577	0.0425	53 57 58.2	20.054	0.005	77.8	589 591	53 3281
8611	8.8	23 58 14.62[2]	+3.0599	+0.0375	+ 50 19 54.4	+20.054	−0.005	72.9	1 2 359 360	50 4231
8612	8.8	58 18.93	3.0602	0.0382	50 50 16.2	20.054	0.005	74.4	5 7 601 602	50 4232
8613	8.8	58 19.56	3.0586	0.0433	54 29 12.1	20.054	0.005	75.9	444 445	54 3107
8614	8.9	58 26.58	3.0609	0.0388	51 17 11.4	20.054	0.006	77.9	594 595	51 3776
8615	8.2	58 28.28	3.0610	0.0392	51 33 11.7	20.054	0.006	74.9	354 355 356	51 3778
8616	8.1	23 58 31.80	+3.0618	+0.0378	+ 50 29 4.4	+20.054	−0.006	71.9	140 141	50 4233
8617	9.0	58 31.88	3.0604	0.0427	54 4 23.3	20.054	0.006	77.9	592 593	53 3283
8618	8.9	58 35.24	3.0612	0.0414	53 8 45.0	20.054	0.006	74.9	357 358	53 3285
8619	9.3	58 54.20	3.0640	0.0401	52 8 59.8	20.054	0.006	77.7	5 obs. [3]	52 3596
8620	9.5	59 4.47	3.0653	0.0401	52 9 3.2	20.054	0.007	83.9	740α 742 744 745	52 3597
8621	7.4	23 59 8.32	+3.0657	+0.0406	+ 52 28 33.6	+20.054	−0.007	77.9	604 605	52 3598
8622	9.3	59 9.36	3.0653	0.0437	54 34 25.2	20.054	0.007	77.8	589 591	54 3108
8623	7.2	59 12.92	3.0657	0.0444	55 0 49.9	20.054	0.007	75.9	444 445	54 3109
8624	9.0	59 26.41	3.0676	0.0440	54 43 34.9	20.054	0.008	79.9	592 593 738	54 3110
8625	8.6	59 36.72	3.0693	0.0409	52 34 52.0	20.054	0.008	74.9	359 360	52 3599
8626	8.7	23 59 45.51	+3.0705	+0.0383	+ 50 40 19.9	+20.054	−0.008	72.9	6 obs. [4]	50 4237
8627	8.9	59 51.42	3.0712	0.0400	51 57 19.2	20.054	0.008	72.9	198 199	51 3780

[1] Z. 357 358 742 744 745 [2] 14ˢ.44 14ˢ.98 14ˢ.54 14ˢ.53 [3] Z. 196 262 263 738 740
[4] Z. 2 5 7 354 355 356

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NOTES.

Nr.	116	BD	54°	37	The minute of δ may be 2.
»	173	»	53	69	One observation has the note "A suspected close companion".
»	305	»	54	137	The minute of δ may be 37.
»	459	»	53	202	A has 55′.
»	466	»	55	225	Position doubtful.
»	482	»	52	247	The minute of δ may be 23.
»	485	»	54	213	Minute of δ doubtful.
»	487	»	55	236	A has 11′.
»	490	»	54	214	A has 24′.
»	496	»	54	215	A has 7′.
»	514	»	54	223	α and δ both doubtful.
»	719	»	53	344	α and δ both doubtful.
»	730	»	51	348	δ probably 47′. A B and L have 47′.
»	795	»	50	340	The minute of δ may be 27.
»	868	»	50	381	Washington 1860 has 52′.
»	1054	»	50	500	Minute of δ doubtful. A has 55′.
»	1072	»	51	543	B has 39′.
»	1152	»	(53	531)	Uncertainty in the identification of the components.
»	1180	»	(53	538)	Uncertainty in the identification of the components.
»	1225	»	54	592	One observation has the note "suspected close double".
»	1310	»	52	640	Notes in regard to component defective.
»	1370	»	52	658	Notes in regard to component defective.
»	1534	»	51	751	A has 51′ but Borst-Peters has 52′.
»	1651	»	51	804	Decl. either requires a correction of +1′, or, less probably, refers to 51°805, which follows 804 by 5^s. [The letter S appended to 51°804 in BD ought to be stricken out; the double star Σ462 follows 1^s 2′ S. and, being considerably fainter than 804 and 805, does not occur in BD. (See Romberg, Cat. of 5364 stars, Nr. 889, 890, 891.) Ed.]
»	1665	»	50	871	B has 31^s.32.
»	1667	»	52	732	α 4^s greater than BD.
»	1669	»	52	733	α 11^s larger than BD. [Error of 10^s in BD. Ed.[1]]
»	1671	»	50	873	The minute of δ may be 49.
»	1686	»	52	746	B has 17′.
»	1704	»	52	758	Position doubtful.
»	1730	»	49	1106	Position doubtful. Disagreement with Radcliffe 1845, Madras 1835 and Piazzi 1800.
»	1836	»	52	823	Disagreement with A in δ.
»	1846	»	53	771	Disagreement with A in δ.
»	1849	»	52	828	Disagreement with A in δ.
»	1855	»	52	832	The minute of δ may be 12.
»	1957	»	54	819	[Error of 10^s in BD. Ed.[2]]
»	1958	»	50	1059	A has 30′.
»	2063	»	53	848	Observation doubtful. Disagreement with A.
»	2110	»	49	1324	One observation has the note "A bright star pr.".
»	2131	»	54	875	α 6^s greater than BD.
Nr.	2140	BD	52°	942	One observation has the note "A very close companion pr.".
»	2170	»	53	899	α doubtful. B has 55^s.61.
»	2191	»	50	1176	The minute of δ may be 23.
»	2265	»	53	935	Disagreement with A in δ.
»	2275	»	54	931	The minute of δ may be 24.
»	2292		—	—	Position a little doubtful.
»	2387	»	55	1045	Position doubtful. Mr. Wendell finds 40^s.17 with the Equatorial.
»	2420	»	50	1269	The minute of δ probably 35, as Radcliffe 1845 and Groombridge both give this value.
»	2566	»	52	1109	Position doubtful. Fedorenko has 6′.
»	2567	»	(55	1104)	Minute of δ doubtful.
»	2656	»	54	1082	The minute of δ may be 24.
»	2735	»	51	1281	B has 23′.
»	2761	»	52	1179	A has 31′ 43^s.1.
»	2867	»	54	1148	The minute of δ may be 45.
»	2898	»	52	1227	The minute of δ may be 29.
»	2978	»	53	1196	A has 10′ 17^s.2.
»	2999	»	54	1186	B-P 1875 has 50′.
»	3182	»	52	1324	Minute of δ may be 36.
»	3449	»	55	1344	Position doubtful. Mr. Wendell finds with the Equatorial α = 57^s.18, and δ = 1′ 4^s.9. B has 56^s.13 1′ 1^s.9 (1860.2), Hels. 6041 56^s.60 1′ 2^s.3 (1875.2, 73.5).
»	3638	»	54	1377	L has 21′.
»	3705	»	50	1763	A and De Ball 1880 have 6′.
»	3858	»	49	2056	Position doubtful. Mr. Wendell finds 50′ 50^s.6 with the Equatorial.
»	3880	»	54	1450	The minute of δ may be 16.
»	3928	»	51	1698	The minute of δ may be 29.
»	4106	»	50	1932	B has 50′.
»	4125	»	51	1779	B has 48′.
»	4144	»	53	1568	Disagreement with L in α.
»	4216	»	51	1811	α 5^s larger than BD.
»	4221	»	51	1815	α 6^s larger than BD.
»	4265	»	53	1618	A has 21′.
»	4335	»	51	1859	α 10^s larger than BD. [Error BD. Ed.[3]]
»	4371	»	54	1622	α 7^s larger than BD.
»	4387	»	51	1876	The minute of δ may be 57.
»	4399	»	53	1672	B has 13^s.90.
»	4436	»	51	1890	The minute of δ may be 7.
»	4466	»	53	1698	α 9^s larger than BD.
»	4589	»	50	2105	A has 1^s.75.
»	4601	»	50	2115	B has 2^s.68.
»	4608	»	54	1704	Doubtful whether the minute of declination is 13 or 14.
»	5016	»	(50	2302)	Disagreement with B. Both α and δ doubtful.
»	5059	»	53	1885	The minute of δ may be 50.
»	5061	»	54	1830	The minute of δ may be 41.
»	5082	»	50	2333	Disagreement with A in α.
»	5109	»	51	2146	α 5^s larger than BD.
»	5124	»	49	2570	The minute of δ may be 50.
»	5164	»	51	2172	Position very doubtful.
»	5209	»	50	2380	B has 53′.

[1] The R.A., BB VI p. 262, ought to be $3^h49^m33^s.34$. — [2] The R.A., BB VI p. 268, ought to be $4^h36^m47^s.37$. The observation was made Febr. 10, 1860, not Oct. 2. — [3] BD p. 163 for $13^h34^m27^s.9$ read 37^s.9. — [These corrections were communicated by Dr. Deichmüller.]

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Nr.	5271	BD	51°2222	A has 10′ 45″.8.
»	5388	»	51 2273	A has 35′.
»	5530	»	51 2340	The minute of δ may be 35.
»	5567	»	54 1974	A has 43ˢ.32.
»	5620	»	54 1991	Perhaps the wrong star. Rümker 1836 has $23^m42^s.49$, and 2′ 42″.0. α is 6ˢ larger than BD.
»	6050	»	52 2443	The minute of δ may be 23.
»	6088	»	52 2461	A has 6ˢ.66.
»	6180	»	52 2509	Uncertain whether the minute of declination is 49 or 50.
»	6182	»	52 2510	Uncertain whether the minute of declination is 49 or 50.
»	6470	»	51 2821	Disagreement with B in α and δ.
Nr.	6622	BD	54°2369	A has 58ˢ.66.
»	6654	»	49 3321	The minute of δ is probably 59, since Piazzi, A and Madras 1835 all have 59′.
»	6914	»	55 2526	B has 14′.
»	7340	»	52 3056	Doubtful whether the minute of declination is 23 or 24.
»	7359	»	50 3492	A has 26′ 44″.9.
»	7601	»	51 3329	Disagreement with other authorities.
»	7852	»	52 3263	B has 28ˢ.09 and 24′ 32″.6.
»	8048	»	50 3912	B has 19ˢ.28.
»	8082	»	54 2909	B has 20ˢ.46.
»	8091	»	50 3947	The minute of δ may be 46.
»	8233	»	51 3606	B has 59′.
»	8279	»	51 3625	The minute of δ may be 54.

The following stars should be marked with an asterisk in Col. Nr.: 459 482 496 719 795 1636 1665 1846 1855 2191 2265 2275 2387 and all the following Numbers for which notes are given p. 175-176, and out of which only five, viz. Nrs. 4221, 4608, 5109, 6180 and 6182, are already duly marked in the Catalogue.

No asterisk should be appended to Nrs. 791, 1906, 1979, 1988.

ERRATA.

P. 9	Nr.	355	for 5 obs. read 7 obs.
» 12	»	550	Footnote 4: for $9^m.4$ read $9^m.5$
» 23	»	1091	dele 52° 569
» 25	»	1170	for B. D. 51° 563 read 54° 563
» 34	»	1632	read $3^h43^m38^s.64$ +4ˢ.4831 +0ˢ.0483; +51°52′39″.4 +11″.243
» »	»	1646	Sec. var. for −0ˢ.0514 read +0ˢ.0514
» 40	»	1906	dele 50° 1027. The two observations belong to 50° 1026 = Nr. 1907
» 41	»	1955	R.A. for 10ˢ.90 read 11ˢ.90
» 42	»	2012	interchange numbers of Zones
» »	»	2013	
» 43	»	2077	Zones for 521 read 621
» 45	»	2172	Ep. in Decl. 75.5; for Z.24 read 24α
» 47	»	2255	Sec. var. for +0ˢ.1139 read +0ˢ.0139
» »	»	2292	dele 51° 1110. The star is not in BD, and was found only $9^m.5$ by Dr. Deichmüller, 1891 Dec. 20. (See p. (8).)
» 51	»	2462	Footnote 2: for 282 read 282δ
» »	»	2467	Zones for 780 read 780α
» »	»	2498	R.A. for 10ˢ.40 read 10ˢ.10
» 52	»	2539	Decl. » 8″.9 » 6″.9
» 53	»	2553	Zones » 223 » 223α
» »	»	2560	read $6^h28^m34^s.12$ +52° 23′ 53″.3 79.2 74.2 284 780α^s
» »	»	»	read footnote 3: Z. 283 34ˢ.15 52″.2 (74.2)
» 54	»	2621	Zones for 640 read 640δ
» 57	»	2754	» » 54 » 34
» 59	»	2874	Decl. » 54° » 53°
» »	»	»	Prec. » +4ˢ.8581 read +4ˢ.7934
» »	»	»	S.v. for −0ˢ.0354 −0″.660 read −0ˢ.0336 −0″.652
» 67	»	3266	Footnote 1: for 778 read 782
» 68	»	3316	Decl. is 2′ too great; B and Hels. 5844 both give 54° 58′. [S.]
» 70			Current Nr. 3500: read 3450
» 78	»	3816	Prec. for −16″.480 read −19″.480
» 81	»	3965	Footnote 2: for 469 read 649
» 83			Current Nr. 4105: read 4100
» 85	»	4169	Footnote 4: for 472 473α read 472α 473
» »	»	4172 4173	The right ascensions apparently ought to be interchanged. The Pulkowa micrometrical measurements place, for the same epoch, the companion in 3″.4 287°.4
P. 87	Nr.	4253	B. D. read 52° 1689
» »	»	4254	» » 52 1690
» 89	»	4371	Zones: for 67 read 68
» 91	»	4457	» » 551 » 550
» 92	»	4540	Decl. 1′ too great. Hels. 7986 has +55° 3′ 55″.6
» 95	»	4660	Zones: for 308 309 read 307 308
» 97	»	4784	Sec. var. for +0ˢ.0093 read +0ˢ.0083 [S.]
» »	»	4787	» » +0.0092 » +0.0082 [S.]
» 100	»	4917	Zones » 814α » 813α
» 101	»	4965	Decl. is 1′ too large; AOe. 16115 and Hels. 8753 both give 5′ [S.]
» 102	»	5008	Footnote 2: for 315 316 read 314 315
» »	»	5040	This is not 53° 1875, but the preceding component of 53° 1876 (17 Drac.). The bright star 53° 1875 = 16 Draconis accidentally escaped observation [S.]
» 104	»	5131	Sec. var. for +0ˢ.0085 read +0ˢ.0083 [S.]
» »	»	5140	dele 50° 2359
» 106	»	5236	Prec. for +3ˢ.2916 read +1ˢ.2916
» 107	»	5262	Zones » 101 » 102
» 109	»	5397	» » 100 101 » 101 102
» 110			Current Nr. 5510: read 5410
» 113	»	5564	Zones: for 329 330 read 328 329
» »	»	5568	B. D. for $49°2777$ read $49°2777$
» »	»	5569	
» 114	»	5641	Ep. in Decl. is 75.6
» 122	»	6016	R.A. agrees nearly with BD, but Romb. 4262 gives 10ˢ less ($22^m52^s.73$) and remarks "BD 8ˢ too large" [S.]
» 128	»	6349	B. D. for $51°2754$ read $51°2754$
» »	»	6350	
» 129	»	6370	Decl. needs the correction +1′ [S.]
» »	»	6376	R.A. for 26^h read 20^h
» 138	»	6844	Prec. » +1ˢ.6555 read +1ˢ.6750
» »	»	6845	» » +1.6657 » +1.6850
» 143	»	7097	B. D. » 52° 5953 » 52° 2953
» 157			Current Nr. 7768: » 7798
» 161	»	7992	Mag. for 8.9 read 9.0
» »	»	7993	» » 9.2 » 8.7
» 166	»	8246	R.A. » 22^h » 23^h
» 168	»	8313	Footnote 2: for 742 read 741
» »	»	8328	B. D. for 52° 3477 read [52° 3477]

The corrections marked S. were communicated by Hr. Seyboth, of Pulkowa.

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